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1948  
SEED ANNUAL

Grand Rapids  
Growers, Inc.

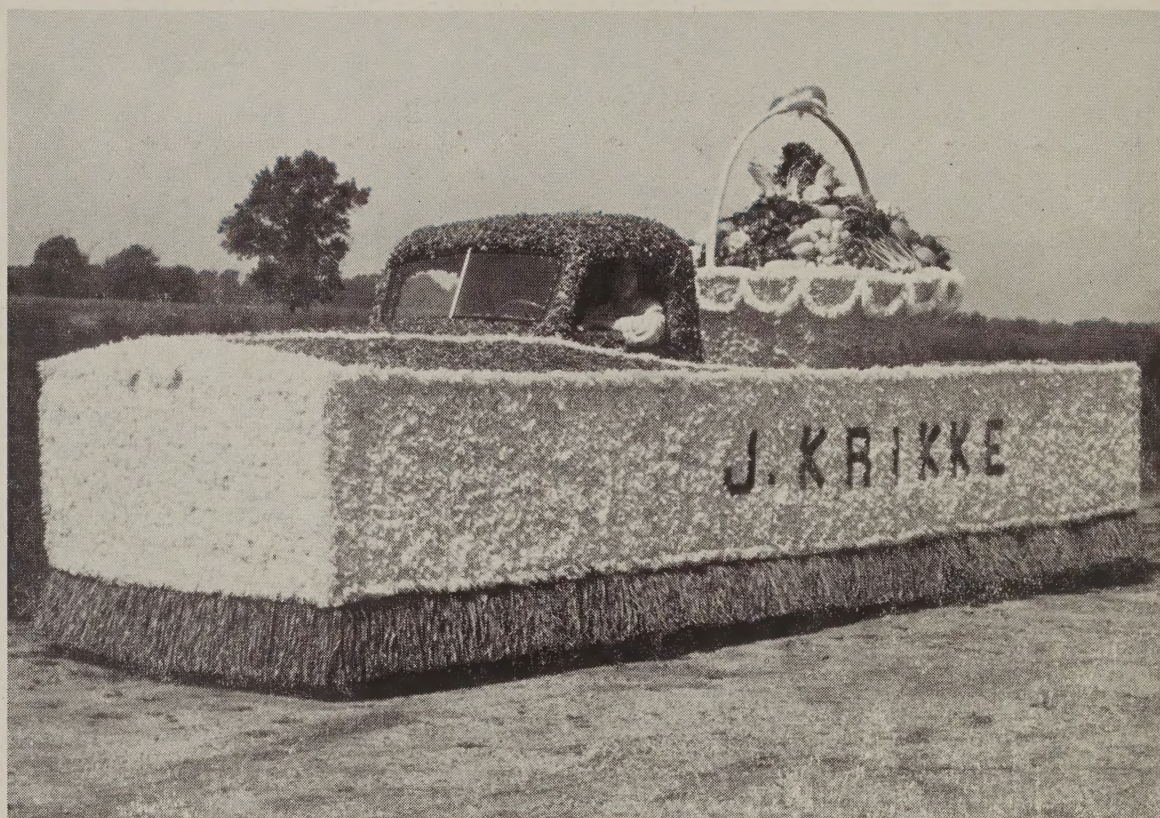
SEED MERCHANTS

401-433 Ionia Ave. S. W.

GRAND RAPIDS, MICH.



# TESTED SEEDS for ALL YOUR GARDEN NEEDS



## FIRST PRIZE WINNER, HUDSONVILLE STATE FAIR, 1947

This float was exhibited by Mr. John Krikke, R. F. D. No. 2, Hudsonville, Mich., and won first honors. The picture is a representative display of vegetables grown in this area. You, too, can have prize winning vegetables by using Grand Rapids Growers, Inc. tested garden seeds.

## *Forcing Varieties*

### The Most Dependable Seed for Greenhouse Crops



THESE VARIETIES are used in all parts of the country by the best and largest growers in the business. If you are not familiar with these varieties, give us a trial order and get acquainted with their merits. Below we give you a partial description, with complete text found in the pages of this catalog. We have appreciated a nice business on our forcing varieties and an order from you will be filled the same day received.

### LETTUCE

**GRAND RAPIDS FORCING** (Washington strain). A splendid forcing strain. Color a light green; heads very heavy; leaf crisp, tender and curly; quality of the best. Complete description will be found on page 15. **Price, oz., 20c; 1/4 lb., 60c; 1 lb., \$2.00, postpaid.**



### RADISH

**GRAND RAPIDS FORCING.** New Improved. The best greenhouse variety and the earliest of the Scarlet Globe type, and superior in every way for greenhouse forcing with the shortest top. Full description will be found on page 23. **Price, oz., 10c; 1/4 lb., 30c; 1 lb., \$1.00, postpaid.**



# GRAND RAPIDS GROWERS, Inc.

Grand Rapids, Michigan

Express or Freight Office (If Different from P. O.) \_\_\_\_\_ Forward Goods by \_\_\_\_\_  
(Parcel Post, Express, Freight or Boat)

All other items are NET CASH as quoted. Money must accompany all orders. Discounts do not apply on Canadian orders, and must be remitted in U. S. funds.

All of our seeds are tested, and we guarantee the vitality and purity to the full amount of the purchase price, and you can have full redress at any time if you are not satisfied with the results, but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore in no case can we be held liable for more than the amount actually paid for the seeds.

[illegible]

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.



### ORDER SHEET — Continued

[illegible]

**SPECIAL NOTICE:** As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

NAME	POSTOFFICE	COUNTY	STATE

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM.



# Grand Rapids Growers, Inc.

## Twenty-Eighth Annual Seed Catalog

# 1948

### Important

By Carefully Following These Suggestions, Many Mistakes Will Be Avoided

#### Order Blanks

Order blanks have been inserted in this catalog for your convenience. Please use them. Fill in your NAME, POST OFFICE, SHIPPING POINT or nearest EXPRESS OFFICE, your COUNTY and STATE, as this is as important in the prompt filling of your order as the order itself. Write plainly and avoid mistakes. Additional order blanks are mailed with every order. If you do not receive them, please notify us, and we will be glad to furnish them.

#### Terms

Our terms are strictly cash and we ask that you enclose your remittance with order. On all vegetables and flower seeds EXCEPT peas, beans and sweet corn, you may deduct 5% as your savings if your order amounts to \$1.00 or more, and 10% on all orders amounting to \$5.00 or more. This discount applies only on spring orders of garden seeds if ordered before April 1st. Orders received after April 1st are not subject to discount. This offer does not apply on special offer collections, bulbs or plants.

This offer is good only in the U. S. A. and your remittance must accompany your order to entitle you to the discount. While we do not think there will be any serious changes, all prices quoted herein are made subject to change without notice. Michigan State Sales Tax will be charged where applicable.

#### How to Send Money

Remittance should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, BANK DRAFT or CERTIFIED CHECK. It is perfectly safe and your order will be assured of prompt handling. U. S. CURRENCY and U. S. POSTAGE STAMPS for small amounts, are acceptable but in this case the letter should be REGISTERED.

#### Canadian Customers (Notice)

We are very thankful for the business you have given us in the past and we will continue to give you our very best of service and quality seeds.

Please take special notice that we cannot make C. O. D. shipments to any part of Canada and cannot pay postage on any items of seed in this catalog above the pound rate.

We also ask that you make your remittance in United States funds as the discount on Canadian paper is far in excess of where it was and will not permit us to honor same at face value. You can, however, obtain a bank draft or money order payable in U. S. funds and will ask that you consult your banker or postmaster. Personal checks or currency are not acceptable.

#### Non-Warranty

We give no warranty, express or implied, as to the productiveness of any seeds we sell and we will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seed.

#### Small Orders

Small orders are just as welcome as the larger ones and receive the same careful attention and prompt handling. All orders are filled the same day as received.

#### Large Quantities

Parties buying large quantities of any one variety of seeds will be quoted special prices on application.

#### Price of Seeds By Weight

We will supply HALF POUNDS and over at the pound rate; less than half pound lots are charged at the quarter pound and ounce rate.

#### Safe Delivery

All seeds and supplies sent out by us are fully insured and we guarantee their safe arrival. If there is any damage, notify us immediately.

#### Postpaid Prices (Important)

We prepay postage on all vegetable and flower seeds in packets, ounces, quarter pounds, half pounds and pounds at the prices quoted herein to any point of the United States or any of its possessions, and Canada; however, we do not pay postage on beans, corn, or peas beyond the "one pound" price; field seeds, onion sets, miscellaneous supplies, or anything that is not specifically listed "postpaid." If such items are wanted by parcel post, add sufficient postage as per Parcel Post Rates given below.

#### Air Mail

On RUSH ORDERS received by mail or wire for one ounce or more of seed, we will send by air mail if so requested at a normal charge of 5c PER OUNCE of seed ordered, as the postal rate is 5c for EACH ounce. One ounce of seed would weigh more than one ounce when it is packed ready to mail. Where the mailing weight is less than one ounce, we will pay the postage. This will give you overnight service to almost any point in the United States.

#### Weight Limit

The weight limit is now 70 lbs. anywhere in the United States, and we advise sending seeds by mail as the service is good; however, on shipments of 20 lbs. and over it is cheaper to send by express, beyond the third zone.

#### Parcel Post Rates

Zone	Miles of Grand Rapids	1st lb. or Fraction	Add to Each lb. or Fraction, 2c for Packing
1st, within	50 miles	9c	2c
2nd, within	150 miles	9c	2c
3rd, within	300 miles	10c	2c
4th, within	600 miles	11c	4c
5th, within	1000 miles	12c	6c
6th, within	1400 miles	13c	7c
7th, within	1800 miles	15c	9c
8th, within	1800 miles	16c	11c
Canada, all parts		14c	14c

If in doubt obtain your zone rate from your postmaster.

NOTE: In case of rate change, prevailing rates in effect at time of publication of this catalog will apply.

## Grand Rapids Growers, Inc.

### Seed Merchants

Cor. Wealthy and Ionia Ave., S.W.  
Phone: 97216

Grand Rapids, Mich.



## Asparagus

**CULTURAL DIRECTIONS.** One-half ounce of seed will sow 50 feet of drill and produce about 500 plants. Drill the seed in rows about 24 inches apart, covering seed 1 inch. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following spring. An application of a good commercial fertilizer in the spring is recommended to avoid weed seeds in barnyard manure and an application of phosphate and potash after the cutting period. Do not cut until third year, limit cutting to middle of June. Every fall before the seed is ripe, cut tops and burn them. Remember, the bed well planted will last for at least 20 years, treat it well.

### ★ Mary Washington Rust-Resistant Asparagus

The largest and most tender green Asparagus. This is a decided improvement due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Suitable for quick freezing. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Paradise** New. Early maturity, heavy producer and fine quality. In looks it is very similar to Mary Washington. The stems are just as large and just as green, but here it ceases, as Paradise is much milder, and will produce a crop the second year from seed. Remarkable results have been obtained, and it is recommended for the home garden as well as market. Suitable for quick freezing. Oz., 40c;  $\frac{1}{4}$  lb., \$1.20; 1 lb., \$4.00, postpaid.

## Asparagus Roots

We have the Palmetto and Mary Washington Rust-Resistant Asparagus Roots, every spring, and as we handle only the very best 2-year roots, that are locally grown, we will ask that you write us for prices in whatever quantity you may want.



Pencil Pod Black Wax

## Beans

**CULTURAL DIRECTIONS.** One pound to 100 feet of drill; about three-fourths bushel per acre of Bush Beans. Beans thrive on a rich, warm, light soil. It is not safe to plant until about the middle of May, as the seed will rot in cold, wet ground, and plants will not stand frost. Plant dwarf beans in rows 2 feet apart and from 4 to 6 inches apart in the rows. Lima Beans should not be planted until June first, when the soil is thoroughly warmed through. Limas will rot in cold ground.

### Wax Podded Varieties

★ **Pencil Pod Black Wax** 52 days. Pods are round, very long, tender, and entirely stringless. Extremely productive. Best market gardeners sort. Suitable for quick freezing. 1 lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00. Crop very short.

★ **Unrivalled Wax Beans** 53 days. Small plant, very early and great yielder. Pods about 5½ inches long. Somewhat curved, semi-flat, fleshy and very tender and stringless. Color pale yellow. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Golden Wax** (Top Notch). 52 days. An excellent early home garden variety. Pods clear golden yellow, broad, flat-oval, fleshy, brittle and stringless. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

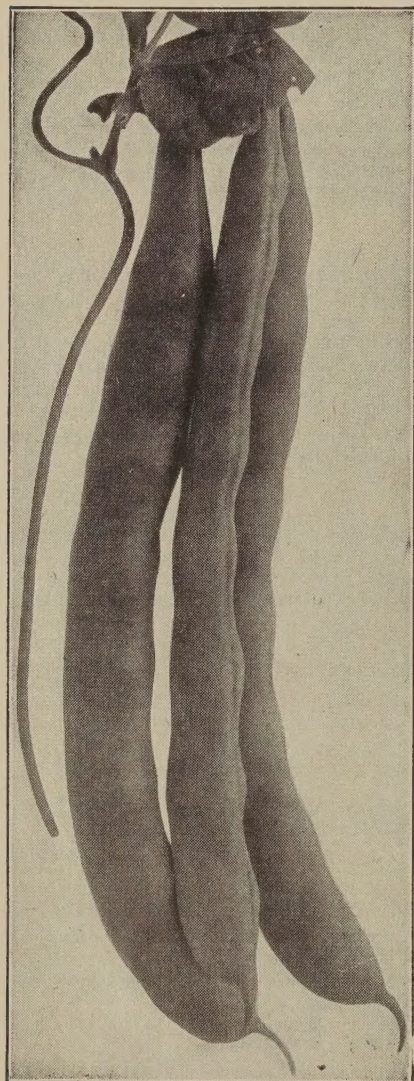
### Green Podded Varieties

★ **Landreth Stringless Green Pod** 53 days. An improvement of Burpee's Stringless Green Pod. Vine is more erect, with darker foliage and a longer, slimmer pod. Pods 6 to 8 inches long, slightly curved, meaty, and absolutely stringless. Undoubtedly the best round-podded bean on the market today. Very prolific and an ideal variety for the home garden, market gardeners and canners. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

★ **Tendergreen** 54 days. A new introduction, and now one of the most popular green beans. Hardy; dependable cropper, medium large, dark green and stringless. Suitable for quick freezing. 1 lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

★ **Giant Stringless Green Pod** 53 days. Similar to Landreth Stringless but pods are a little longer, straighter and more slender, more depressed between beans and slightly lighter in color; early, hardy and of highest quality. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Bountiful** 48 days. Best of the flat-podded varieties. Pods 6½-7 inches long, thick, flat and slightly curved. Stringless and of fine quality; color light green. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.



Landreth Stringless Green Pod



## Green Podded Varieties—Cont.

**Black Valentine** 52 days. A round-podded, stringless shipping and market variety. Pods 6 to 6½ inches long, dark green, slightly curled. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Plentiful** 50 days. Very desirable for shipping or for the home and market garden. It is a green flat-podded bush bean, an improved, very productive variety of the Bountiful type. Long straight, medium deep green pods, brittle, stringless of a distinctive flavor. Notably resistant to common rust. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Refugee or 1000 to 1** 70 days. A very productive, hardy, vigorous late sort. Pods 5 to 5½ inches long, somewhat slender, round and slightly curved, almost stringless and of good quality; color light green. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Kentucky Wonder or Old Homestead** 65 days. The most popular green-podded, climbing Bean; early and productive. Pods 8 to 9 inches long, very slender. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

**Dutch Case Knife** (Snijboonen). 65 days. Pole Bean. Green snap pods, 7 to 8 inches long, straight, flat, brittle, of good quality; best as a shell bean. Beans very flat, ivory-white. 1 lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

**Scarlet Runner** 64 days. An outstanding Bean for its ornamental purposes but may also be used for green shell or snap Beans. Vine 10 to 12 ft. tall, dense glossy dark green. Has large, beautiful scarlet blossoms. Pods 6 to 6½ inches long, broad, oval, fleshy, stringy, fair quality in young stage. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50.

## Lima Beans Pole Varieties

**King of the Garden Lima** 88 days. An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide, and uniformly four-seeded. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

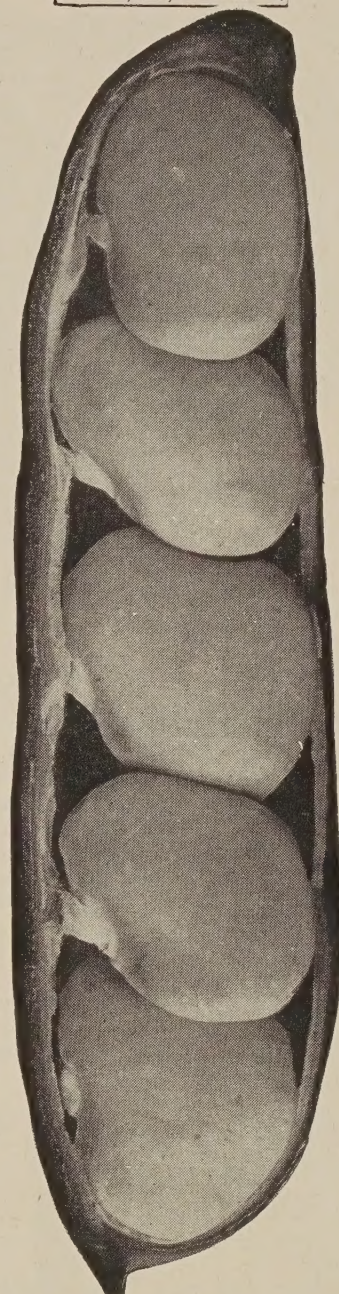
**Early Jersey Pole Lima** (Sieberts). 80 days. An early midseason variety. Very productive and highest quality. Pods 5 to 6 inches long; beans rather thicker than the King of the Garden, but of the same type. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

## Dwarf or Bush Varieties

**Burpee's Improved Bush Lima** 75 days. Both beans and pods are larger than the old type. The pods measure 5 to 6 inches long by 1¼ inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. Suitable for quick freezing. 1 lb., 55c; postpaid. Not prepaid, 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.50.

★ **Fordhook Bush Lima No. 242** U. S. D. A. 75 days. A most excellent variety and exceedingly popular with market gardeners. Pods are about 5 inches long, containing 4 to 5 large, oval-shaped, very thick, white beans. Suitable for quick freezing. 1 lb., 55c; 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.50.

★ **Henderson Bush Lima** Thorogreen Green Cotyledon. (Baby Lima.) 65 days. A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat, white beans. Suitable for quick freezing. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.



Burpee's Improved Bush Lima

## Beets

**CULTURAL DIRECTIONS.** One ounce to 50 feet of drill; 6 to 8 pounds per acre. Beets prefer a well-prepared friable soil planted from ½ inch to ¾ inch deep, according to the texture of soil. For an early crop sow in drills 1 foot apart. Sow as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to 3 inches apart in the row. Beets can be sown as late as July for main crop. Hen manure is recommended as a fertilizer in the rows; care being used that the seed does not come in immediate contact with the fertilizer.

★ **Early Wonder** 55 days. An early variety. It is turnip-shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

★ **Detroit Dark Red** (Morse's Strain.) 55 days. The best for market garden or home use. Roots smooth, medium size, globe-shaped; skin dark red; flesh solid vermilion-red. Tops small, upright, dark green, shaded red. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

Detroit  
Dark  
Red  
(Morse's  
Strain)





Italian Green  
Sprouting Broccoli

## Broccoli

A frequent application of nitrate of soda can be of great value to promote the life of this crop.

**Italian Green Sprouting** 75 days. This variety produces a large head, like Cauliflower, consisting of a compact cluster of bluish green flowers. When the central head is removed, the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are crooked and served as Cauliflower. Suitable for quick freezing. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

## Cabbage

**CULTURAL DIRECTIONS.** One ounce will produce about 2000 plants; 10,890 plants will plant an acre of early Cabbage; and 7,260 plants for an acre of late. Three ounces of seed will plant an acre of early and five ounces an acre of late Cabbage. For early Cabbage, sow seed in hotbeds in January or February. Transplant as early as possible to the open ground about two feet apart each way. For late Cabbage, sow seed in open ground in May and transplant about July first in rows 2½ feet each way.

In fertilizing, we recommend hen manure at the rate of one handful to three feet in the furrow. Care must be used so that the roots do not come in direct contact with the manure.

## Early Varieties

★ **Golden Acre** 64 days. Heads round, very hard. Matures two or three weeks earlier than Copenhagen Market, but is otherwise quite similar. Owing to earliness and remarkable uniformity, Golden Acre will prove the most profitable early Cabbage for market gardeners. Oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

**Early Jersey Wakefield** 62 days. Market gardeners in general consider this the best early variety. The conical heads are very uniform in shape, very solid. Our stock is dwarf, compact and extremely early. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

**Improved Copenhagen Market** 65 days. Nearly as early as the Jersey Wakefield. Stems short, heads large, round and solid, with few outer leaves. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

**Green Acre** 66 days. A comparatively new strain with the general characteristics of Golden Acre, but holds its green color longer, an added value to market gardeners and shippers. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

**Ferry's Round Dutch** 71 days. Splendid for home and market garden. Plants small and compact; stem short. Heads almost ball-shaped; commonly 7 to 8 inches in diameter, 6 inches deep, and weigh 4½ to 5 lbs.; firm and of high quality. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

## BEETS—Continued

**Crosby's Egyptian** 58 days. Where an early market sort is desired, our strain is unequalled. Roots a flattened globe shape, skin very dark red, flesh a trifle lighter, tops small. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Early Blood Turnip, Improved** 60 days. The old standard table Beet. Roots nearly round or slightly flattened, bright red, zoned and of good quality. Not so early as Detroit, but with a larger, coarser top. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Green Top Bunching** 60 days. Early, extremely attractive bunching beet. Tops medium sized and erect. Foliage clean, grayish green that does not turn red or brown in the fall. Roots round, smooth and glossy, flesh bright blood-red. Mostly grown for beet greens. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

## Mangel or Stock Beets

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill, five pounds per acre. Sow early in the spring, in rows about two feet apart; cover seed one and one-half inches deep, pressing ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

**Mammoth Long Red** 120-150 days. A favorite with the dairyman and farmer. Large, well-formed; dark red color, very nutritious; a big cropper. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**Golden Tankard** (Yellow Eckendorf). 120-150 days. Very productive and sweet; tops and neck very small; flesh yellow; especially relished by cows and sheep. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

## Sugar Beets

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for winter feed. They are also excellent for poultry.

**Giant Feeding Sugar** 120-150 days. A most valuable, large yielding variety for feeding; half sugar, oval-shaped, skin rose colored, flesh white, very nutritious and easily harvested. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Danish Ballhead

★ This variety recommended by the Michigan State College





Golden Acre Cabbage

## CABBAGE—Continued

## Late Varieties

**Ferry's Hollander** 100 days. Decidedly the best variety of late Cabbage. Heads become firm while still rather small. They reach good marketable size in 90 to 100 days, but continue to enlarge, maturing in about 120 days. Plants medium small, allowing closer planting, short stem, erect and compact. Extremely hardy, splendid quality and keeps perfectly in storage until late spring. Oz., 45c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

★ **Penn State Ballhead** 100 days. A heavy yielding strain of the short stem Danish Ballhead type. Originated by Pennsylvania State College. Yields as high as 26 tons per acre have been recorded. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

★ **Danish Ballhead** 95 days. Short-stemmed, heads round, very solid and heavy. Splendid keepers, hardy, and the best winter sort. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

**Premium Flat Dutch** 105 days. Highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

**American Savoy** (Chieftain). 85 days. Large, flatrish heads, very curly and hard. One of the best Savoys. Oz., 35c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

**Mammoth Rock Red** 90 days. Heads solid, of good size and quality. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

**Red Stonehead** 80 days. An exceptionally good variety, forming uniform round heads; smooth, hard, of a glowing red color. A good keeper. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

## YELLOWS-DISEASE-RESISTANT VARIETIES

★ **Yellows Resistant Golden Acre** 62 days. This strain can be grown successfully on soil infested with yellows. Can be cut just as early as the standard variety, and has a similar yield. But under abnormal conditions and backward weather, it has a tendency to bolt readily and the regular strain is recommended. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.50, postpaid.

★ **Wisconsin Hollander No. 8** 90-100 days. A heavy yielding late storage type, highly resistant to yellows. Round head, and yields greater tonnage than the ordinary strains. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.50, postpaid.

★ **Marion Market** 75 days. A yellows-resistant strain of Copenhagen Market. Round head and crisp tenderness of the parent cabbage. Principally adapted on yellows infested soils where non-resistant strains fail completely. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

## Brussels Sprouts

The culture is the same as for Cabbage which it resembles, the edible part being the small heads, an inch or two in diameter that form at each leaf joint all the way up the stalk. The leaves should be broken off in the fall to give more room for the little heads to grow. Delicious and more tender than any Cabbage. 90 days. Suitable for quick freezing. Half-dwarf. Oz., 50c; ¼ lb., \$1.50; 1 lb., \$5.00, postpaid.

## Celery Cabbage or Chihili

**CULTURAL DIRECTIONS.** One ounce will produce 2000 plants. Do not sow seed till the last of May, earlier sowing generally going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned.

**Michihli** 70 days. A new strain of Celery Cabbage. In habit of plant it resembles Chihili, but the growth is more vigorous. The leaves are dark green and do not have the yellowish cast of Chihili. The leaf margins are waved and the individual plants are very uniform. It is surer heading, and in trial plantings made on a commercial scale it has produced 99% marketable heads, but after trimming, have the general conformation of Chihili but are firmer and possibly larger. The seed is offered for the first time this year, but will not be available until about June 1st, as earlier sowing is not recommended. Oz., 65c; ¼ lb., \$1.75; 1 lb., \$6.50, postpaid.

**Chihili** 70 days. Imported from Holland and recommended to us as being the true strain. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**Chihili** 70 days. Australian grown. The same seed we offered this past season. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid. In ordering, specify which you want.

## Swiss Chard

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer and if given a little protection during the winter, will produce early greens in the spring.

**Lucullus** 55 days. Leaves large and curly. Plant grows about 2 feet high, midribs are very broad and are a good substitute for Asparagus during the summer months. Oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.

**New Rhubarb** A Chard of unique crimson color. Stalks sweet and succulent. Bright red in color; leaves green to bronze, heavily veined with red. Plants are vigorous and will yield a tremendous crop throughout the summer and fall, until frost. Pkt., 15c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.00, postpaid.



Michihli Celery Cabbage

All prices quoted herein are subject to change without notice.



# Carrots

**CULTURAL DIRECTIONS.** Carrots require about the same simple care as Beets; they have no serious insect enemies, and they are rarely attacked by disease. It is best to plant them in soil that is friable and richly fertilized. Plant the seed one-half inch deep in loose, well-prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as the plants are well established and thin to 2 or 4 inches in row, according to size of the variety. Plantings may be made from early spring until mid-June. For winter storage the later date is advisable.

★ **Nantes Coreless, Strong Top** 68 days. A very superior Carrot. It is coreless, brittle, fine grained and of fine, mild, sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical, and very stump-rooted. Suitable for quick freezing. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Supreme Half Long** 75 days. Resembles a small refined Danvers with short tops. Roots 6 to 7 inches long, about 2 inches in diameter at shoulder, tapering to a half stump. Exterior smooth and of excellent color. Interior flesh tender, sweet and of fine flavor. Core small and the same dark red as the rest of the flesh. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

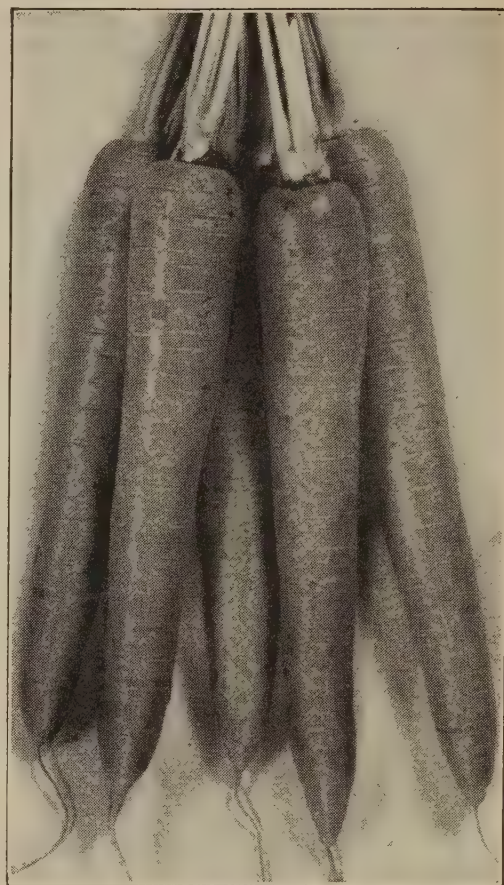
**Imperator** 77 days. Smooth and attractive in appearance, 7 to 8 inches long, with rounded shoulder and medium tapered roots. And the deep orange color of the exterior extends throughout the core and inside flesh, making it a Carrot of exceptionally fine flavor and quality. Used extensively for bunching. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

★ **Streamliner** 77 days. An ideal new bunching Carrot for shippers and market gardeners. Tops short, rather sparse, dark green and strong. Roots long, slender, nearly cylindrical, 8 to 10 inches long, and they grow completely underground. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

★ **Chantenay, Red-Cored** 70 days. This is a distinct improvement over the well known standard Chantenay, especially in color, texture and quality of flesh. Roots  $5\frac{1}{2}$  to 6 inches long,  $2\frac{1}{4}$  inches thick at the shoulder; tapered stump root. Flesh and core reddish orange, fine grained and tender. A favorite with canners, market gardeners and shippers. Suitable for quick freezing. Oz., 15c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.75, postpaid.



Nantes Coreless Carrots



Imperator Carrots

**Chantenay, Long Type** 70 days. A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer but fully as large; stump rooted at maturity. Texture and color equal to Red-Cored Chantenay. Suitable for bunching or bushel use. Suitable for quick freezing. Oz., 15c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.75, postpaid.

**Touchon** 68 days. A quality Carrot for home and market garden. Tops medium height and strong. Roots orange-scarlet,  $6\frac{1}{2}$ - $7\frac{1}{2}$  inches long;  $1\frac{1}{4}$ - $1\frac{1}{2}$  inches thick; straight, cylindrical, strictly stump-rooted. Flesh deep orange with inconspicuous core. Similar to Nantes but preferred by some for greater length and stronger top. Suitable for quick freezing. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

★ **Morse's Bunching** 77 days. Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are  $1\frac{1}{4}$  to  $1\frac{1}{2}$  by 8 inches in size, almost cylindrical with rounded shoulders, and are well stumped. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Long Orange** 85 days. Good variety for deep sandy soil. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Scarlet Horn** 60 days. A small, early, stump-rooted variety of good flavor and quite coreless. The roots will average about 3 inches long. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Oxheart or Guerande** 72 days. Very short, thick and stubby. Very desirable for heavy clay soil, as it is easily harvested. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**White Belgian** 95 days. Large, white stock carrot. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Yellow Belgian** 95 days. Grows one-third out of the ground. Very large, long yellow stock Carrot. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## SPECIAL GROWERS RECOMMENDATIONS

Our cultural directions are the special recommendation of our growers who through actual experience know what is necessary for the successful growing of a crop, and give it to you for your guidance.



**MICHIGAN  
GOLDEN****YELLOWS-RESISTANT  
SELF-BLANCHING CELERY**

An improved strain of the original Michigan Golden variety bred by plant pathologists of Michigan State College for resistance to Fusarium yellows and introduced by Grand Rapids Growers' Inc.

**GENUINE MICHIGAN GOLDEN SEED IS SOLD ONLY IN  
PACKETS BEARING THE SEAL OF MICHIGAN  
STATE COLLEGE**

**Michigan Golden** is highly resistant to Fusarium yellows, also known as root rot, crown rot, stunt or sickness. It is not resistant to other celery diseases and seed treatment together with the use of protective dusts or sprays must be relied upon to control leaf blights.

In any inquiry concerning this seed include this label and address your communication to

**MICHIGAN STATE COLLEGE  
DEPARTMENT OF BOTANY AND PLANT PATHOLOGY  
EAST LANSING, MICHIGAN**

No warranty, expressed or implied, is given as to description, productiveness or purity of this seed and we can not be in any way responsible for the crop. If the purchaser does not accept these terms the seed should be returned immediately and money will be refunded.

**Original Michigan State College seed is sold only in packets bearing this label and the seal of the College. No other seed is genuine. Beware of bulk seed of this variety.**

G

Serial No.

**MICHIGAN  
GOLDEN Celery****Michigan State College Fusarium Yellows-Resistant**

Michigan Golden Celery was introduced by us in 1933 and its record since then has proven it to be the most resistant and the most productive yellow celery for growing on soils infested with the destructive root rot fungus. It is an especially valuable variety for midsummer and late crops that are subjected to the high soil temperatures of the summer months. Under those conditions Fusarium Yellows is most destructive in susceptible varieties of celery. Michigan Golden retains its high resistance under summer temperature conditions most favorable for root rot and will produce a crop when less resistant varieties are ruined.

Due to the nature of the Fusarium Yellows disease, continuous breeding is required to maintain the high resistance of this variety. As a result of continuing reselection work, Michigan Golden is now greatly improved over the original introduction. Larger and more uniform stalks with a heavier base are characteristic of this new strain.

We strongly recommend Michigan Golden for planting in soils where Fusarium Yellows or root rot attacks other varieties of yellow celery. We especially recommend it for the summer and late crops. No one variety is adapted for use on all soils and for all climatic conditions. Michigan Golden is especially adapted for Michigan conditions but is widely and successfully grown in other sections of the country where root rot is also a destructive disease.

Michigan Golden was developed by plant pathologists of Michigan State College and the breeding work is continuing under their supervision. All genuine Michigan Golden seed is grown under their control, packeted at the college and sold only in the original sealed containers.

**Prices:** ½ oz., \$1.25; 1 oz., \$1.75; 2 ozs., \$3.50; ¼ lb., \$5.50; 1 lb., \$22.00, postpaid.

**Cauliflower**

**CULTURAL DIRECTIONS.** One ounce of seed will produce 4000 plants. Five ounces of seed to an acre. Directions about the same as Cabbage, except planting in rows about 3 feet apart and 18 inches apart in the row. When plants begin to head, tie leaves up around the heads to protect from the sun.

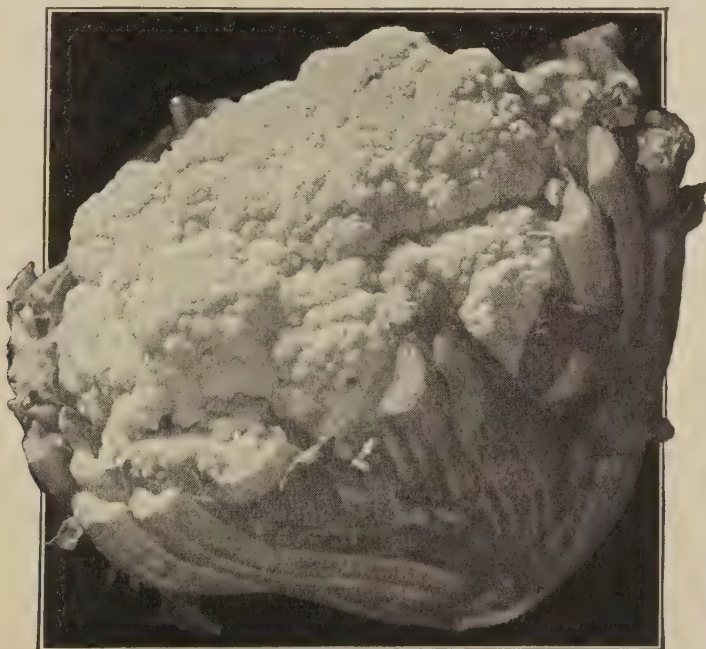
**Early Select Snowball** 52 days. A very fine strain producing a magnificent head of snowy whiteness. Head is very compact, even and fine grained. The outer leaves are erect, tending to protect the young head from the hot sun. Selected for evenness in heading, enabling you to market the entire field in rapid succession. Suitable for quick freezing. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

**★ Growers Special Improved** 60 days. Medium sized heads, snowy white in color, evenly grained and compact. The very best variety of the Snowball type. Suitable for quick freezing. Oz., \$2.50; ¼ lb., \$8.00; 1 lb., \$30.00, postpaid.

With wartime restrictions removed, we can again offer you imported Cauliflower seed.

**Helios** Original. Snow-white solid heads with uniform, tall, upstanding protecting foliage. Is unsurpassed for cutting during the last period of summer. Oz., \$3.50; ¼ lb., \$11.50; 1 lb., \$40.00, postpaid.

**Selandia** Early type, though a little later than Stella Nova, the Early Snowball. Has large, broad, robust foliage which affords good protection for the large, solid white heads. Suitable for quick freezing. Oz., \$3.50; ¼ lb., \$11.50; 1 lb., \$40.00, postpaid.



Early Select Snowball



One Dozen Stalks is an Armful of Michigan Golden



# CELERY—Choice

**CULTURAL DIRECTIONS.** One ounce will produce from 5,000 to 10,000 plants; two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer, but as muck soils are usually well supplied with an abundance of nitrogenous matter, a fertilizer high in phosphate and potash usually gives the best results.

## YELLOW VARIETIES

**New Golden Self Blanching** 85 days. This is the celebrated "Vilmorin" French strain and has been imported direct from France. It has a long stalk and is commonly called "TALL STRAIN." Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

**New Golden Self Blanching** 85 days. American grown. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

**Golden Plume No. 4162** (New strain.) Our improved strain fills the need for a taller, long-stemmed Golden Plume. Retains earliness and ease of blanching of the original strain, but is more compact in form, straighter, and much better adapted to the standard crate. Normally 24 to 26 inches tall, with stems 7½ to 8½ inches and a full heart. Oz., \$1.25; ¼ lb., \$4.50; 1 lb., \$16.00, postpaid.

**Growers Wonderful** 80 days. A valuable early variety similar to the Golden Plume. The plants are semi-dwarf, very vigorous and have a very full heart which bleaches quickly to a golden yellow color. Excellent for market gardeners. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00.

**Jersey Golden Plume** Taller Type. It is an excellent variety for early planting, showing some resistance to soil diseases. On account of the great care taken in selecting and roguing we know there is none better. The ribs are from 7 to 8 inches to the first joint, according to growing conditions and the height is about 26 to 28 inches. Oz., \$1.75; ¼ lb., \$6.50; 1 lb., \$24.00.

**Jersey Golden Plume** Special. A shorter type of Jersey Plume grown by the original grower. This is a full-hearted plant, more uniform in growth, 7 to 8 inches to the first joint, with an overall length of 22 to 24 inches. Oz., \$1.75; ¼ lb., \$6.50; 1 lb., \$24.00, postpaid.



Jersey Golden Plume Celery

**Kilgore's Pride** 105 days. A very early marketing variety. Broad, thick-ribbed, 8 to 10 inches to the first joint, averaging 25 inches over all. Heavy heart and a very heavy yielder. Oz., \$1.75; ¼ lb., \$6.00; 1 lb., \$22.00, postpaid.



New Golden Self Blanching

**Cornell No. 19** 100 days. We offer the true strain of this excellent variety. It has been developed by Cornell University by crossing Golden Self Blanching and Pascal. 10½-11 inches to joint with an over-all length of 24 to 25 inches. Hearts long and comparatively full. Stems thick, rounded and of smooth texture. Combines the good qualities of the Pascal type and is highly resistant to fusarium yellows. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$18.00, postpaid.

## SUPPLIES FOR CELERY GROWERS

**Krop-Saver C-1 Dust.** This fungicide is a new material containing an insoluble copper with light weight talc as a carrier. No water or moisture required to make it active. Can be dusted on Celery when the leaves are dry. Lends plant stimulation through copper being absorbed through the leaf surface. Many Celery growers are using this new dust and getting improved Celery yields.

**Celery Bleaching Paper.** "Farmrite" is really what the Celery grower wants. It is constructed of two sheets of heavy, first quality kraft paper combined with a waterproof, light-excluding cement of asphaltum and is heavily re-inforced with strong cords to resist tearing. Comes in 10-inch wide rolls by 310 feet long and 12-inch wide rolls by 310 feet long.

**Celery Tape,** 17 and 21 strand. **Celery Braids,** 13, 17, 21, and 25 strand. **Hard twist,** 4-ply and 6-ply. **Sea Island,** 2-ply hard twist. **Soft twist,** 8-ply.

The above are all red in color.

Prices quoted upon application, and we would appreciate an opportunity to quote you on your requirements.

## DISEASE RESISTANT VARIETIES

**MICHIGAN GOLDEN.** Listed, described and illustrated in full on page 9.

**CORNELL 19.** Listed on this page.

**GROWERS GOLDEN No. 31 C.** This variety is new and shows considerable resistance to soil disease. Height 22 to 26 inches; stems 8 to 10 inches to first joint. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

**JERSEY GOLDEN PLUME.** Taller type. Listed on this page. Shows some resistance under average conditions.



# Market Garden Varieties

## GREEN VARIETIES

★ **Growers Earligreen** The finest, earliest green Celery we know. Vigorous and large; compact in habit of growth. Plant is surprisingly large for an early sort. The outer leaves are green and the very full heart is pure white, brittle and of most delicious flavor. In our trials this proved to be an outstanding variety in all details. It is the best green Celery on the market today, and should be in heavy demand this year. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

**Paragon** A Celery of exceptional merit. The plant is dwarf, vigorous, quite hardy, and has a very full heart. Stalks broad, quite thick, very solid, crisp and tender, bleaching readily to a golden yellow color. Highly recommended for an early or late crop. Oz., \$2.25; ¼ lb., \$7.50; 1 lb., \$26.00, postpaid.

### Pascal and Utah Strains

**Growers Pascal No. 49** An entirely new strain of this increasingly popular type of Celery. Grown and developed by one of the most expert seed producers in the country. May be grown for early crop, if it is transplanted in the field after all danger of frost has passed. It is 22 to 26 inches tall, 8- to 10-inch joint, stalky, compact and straight in habit of growth. Stems broad-ribbed but smooth, indicating its fine, brittle texture and excellent nutty flavor. May be bleached to light greenish yellow or shipped from row as any other green Pascal. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

**Improved California Pascal** (Summer Pascal.) Height 22 to 24 inches. Very heavy, well rounded channel. Stems very smooth and brittle. Excellent heart. May be used for a summer Pascal or a later crop for storage. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

**California Pascal** A green midseason Celery. Easy to blanch. Height 26 to 28 inches, stems 9 to 10 inches long. Very heavy, rounded with narrow channel, slightly tapered. Stems numerous, forming a compact head. This is the strain that is proving successful in many of the larger markets. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

**Superior Pascal** A new strain of the Pascal family. We suggest a trial of this new variety to growers of Pascal Celery. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.



Earligreen

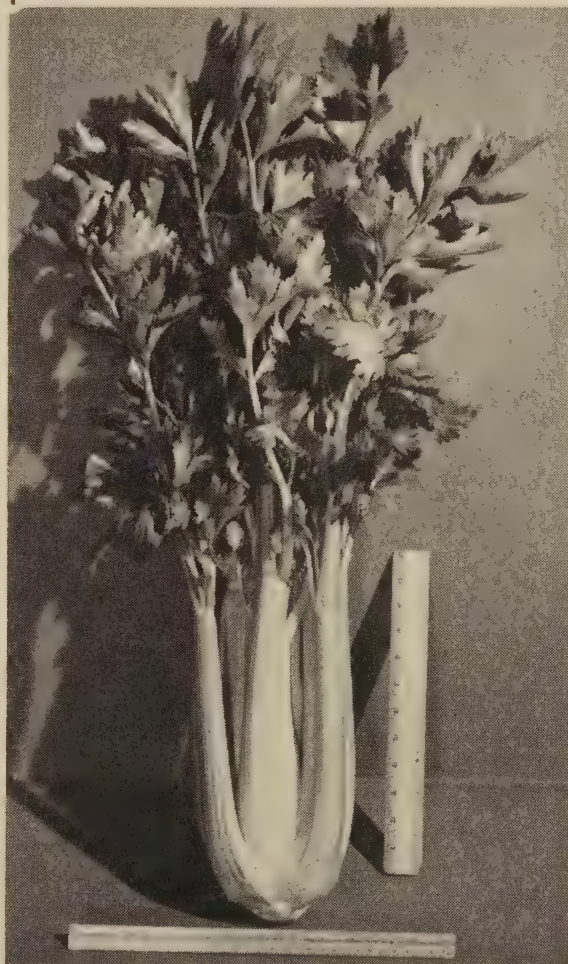
**Utah 15** A strain of Utah of midseason maturity. Plants are large, height 26 to 28 inches. Leaves are dark green, deeply cut, moderately broad. Plants are erect, compact, full hearted. The edible stem is usually 8 to 10 inches, of medium width, thick, rounded, quite smooth, crisp and of fine quality. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

**Utah or Golden Crisp** A desirable green type Celery maturing a week to 10 days earlier than Utah 15. This strain is like unto Certified Utah. Plants stocky, full hearted and compact; blanches readily; stems thick, solid, broad, fine quality. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

### New Growers Green

A superior strain of a green Celery, having the characteristics of the Newark Market but greatly improved with greater vigor and quicker bleaching ability. The stalks are large, thick and fleshy, very brittle, crisp and of fine flavor. Many growers who are having trouble with their yellow Celery should try this strain. Oz., \$2.50; ¼ lb., \$8.00; 1 lb., \$28.00, postpaid.

**Celeriac Large Smooth Prague.** 110 days. Turnip rooted Celery. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.



Growers Pascal No. 49



Paragon

★ This variety recommended by the Michigan State College.



# Sweet Corn

**CULTURAL DIRECTIONS.** One pint for 100 hills; about six quarts per acre. Early corn is planted in rows 2½ to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for table eight or nine weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills 3 to 4 feet apart. It will be ready for use in from 10 to 12 weeks from date of planting.

## Open - Pollinated

**Golden Early Market** 72 days. Earliest of the golden varieties and better than the Gill's Early Golden. Ears medium, 8- to 12-rowed, of about the same size as Improved Bantam, with stalks 3½ feet tall, medium tender, sweet and of good flavor. A popular and prolific variety for home and market garden. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**Alpha** 72 days. The earliest Sweet Corn. A money maker for the early market. Ears attractive; 8-rowed; very uniform. Kernels white, plump, sweet and tender. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**★Golden "Sunshine"** 74 days. A valuable yellow variety for the market grower or the private gardener. It is a cross between the Golden Bantam and Gill's Early Market, and combines the earliness and large size of ear of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to 10 days earlier than Golden Bantam, and has a much larger ear, the ears averaging 8½ inches long, with 12 to 14 rows. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**★Golden Bantam** 79 days. Hardy, early maturing, very dwarf. Cob is small but fills out nicely with large, deep cream-colored kernels, which turn yellow when ripe. No home gardens should be without this excellent corn. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**Black Mexican** 83 days. Reputed to be the sweetest and most delicious of all table Corn. Color is white when young, changing to bluish black in later stages. 1 lb., 35c, postpaid.

**Improved Golden Bantam** 85 days. Superior to the original Golden Bantam in quality, and has larger ear. It matures about the same time. Nearly all ears carry 12 rows of deep, rich, golden yellow kernels, set close upon the cob. It is a favorite with the market gardener. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**Golden Evergreen** 95 days. This new variety combines all the good qualities of Golden Bantam and Stowell's Evergreen. Has the bright golden color and tender kernels of Golden Bantam and the flavor and sweetness of Stowell's Evergreen. Ears much larger than Bantam; not quite as large as Evergreen, but much earlier. Stalks are full leaved and usually bear two well-developed ears. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**Early Evergreen** 90 days. Has all the merits of the "Stowell's" Evergreen. This is a white Corn. It is a splendid variety for the market gardener. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**★Stowell's Evergreen** 90 days. The most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners. Ears are of good size, grain deep; tender and sugary. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

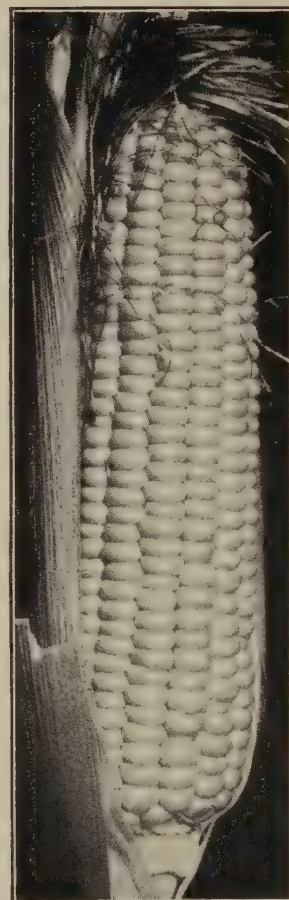
**Country Gentleman** (White or Shoe Peg Corn). 90 days. An especially fine quality corn; without row formation. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

**Golden Country Gentleman** 90 days. The result of crossing Country Gentleman and Golden Bantam, is without a row formation and similar to Country Gentleman. Kernels deep and narrow. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

## POP CORN

**Australian Hulless** Dwarf growing; heavy yielder of attractive ears; peculiar form, being nearly as thick as long. Color pearly white. Entirely hullless, making it the tenderest of any Pop Corn when popped. 1 lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.75.

**South American Yellow** 110 days. Sunburst. Better adapted for Michigan climate. It matures about 2 weeks earlier than the true type South American yellow. Amber color, large size when popped, having a butter-colored tint. 1 lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.75.



★ Sunshine

## Hybrids

A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of corn or their combinations.

**Marcross C13x6** 67 days. This has proved a very good early market and home garden variety. Stalks are short but sturdy, highly resistant to Stewart's disease. Ears long, plump, abruptly tapered at the tips, 10- to 14-rowed with light cream-yellow, medium broad kernels of good quality. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

**Golden Cross Bantam** 85 days. Excellent for market gardens and well adapted for canners' use. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, with exceptionally broad, dark green leaves. Ears 10- to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. Suitable for quick freezing. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

**Ioana Hybrid** (All-America Selection.) 87 days. A midseason yellow hybrid, highly resistant to both drought and wilt. Plants tall and sturdy with broad, numerous leaves. Ears 7½ to 8 inches long, 12 to 14 rows, cylindrical, well filled with medium narrow light yellow kernels. An attractive and productive variety for either gardener or canner. Suitable for quick freezing. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.



## Table and Pickling Cucumbers

**CULTURAL DIRECTIONS.** One ounce of seed to 50 hills; 2 pounds per acre. Cucumbers should not be planted until the ground is warm, about June 1st. For pickles, they may be planted as late as July 1st. They require a warm, rich, sandy soil. Plant in hills about 4 feet apart and about 8 seeds to the hill. When all danger from insects is past, thin to 3 or 4 of the strongest plants.

Cucumber Beetle—No. 10 Pyrocid Dust is the control measure to keep your Cucumbers clean. Apply promptly and grow your Cucumbers without any trouble. Circular free on request.

**Growers Early Dark Green** 70 days. Selected from Cubit variety. A comparatively new variety of special merit, because of its excellent shape and dark green color. Fruits white spined, cylindrical and hold their color to a larger size than most other varieties. Fruits 7½ to 8 inches long, 1⅞ inches in diameter. Shy seeder. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

**Ace Hi** 65 days. White spine variety, 9 to 11 inches long, round at ends; dark green with trace of light green around blossom scar, small seed cavity, crisp flesh. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Marketer** 70 days. A variety of recent introduction, producing very dark green, cylindrical fruits which taper slightly at the ends. Fruits 7½ to 8 inches long, 2¼ inches in diameter. White spined. Vines vigorous and prolific. Its uniform shape and attractive color make it an excellent market variety. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

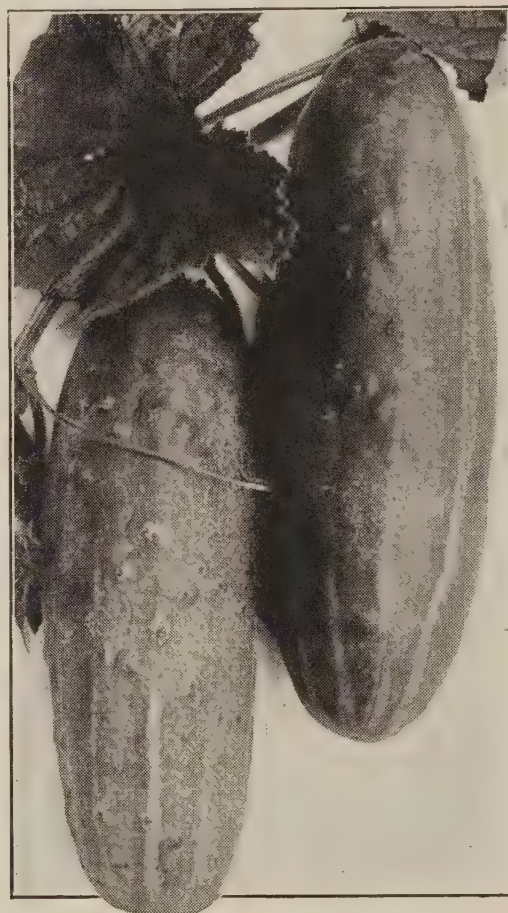
**Stays Green** (Black Diamond). 60 days. Splendid for shipping. A rich dark green, 8 to 9 inches long, slightly tapered, full at both ends. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

★ **Improved "A & C"** 68 days. The vigorous growing, disease-resistant vines produce an abundance of uniform, exceedingly dark green Cucumbers, averaging 10 inches long. The fruits are of uniform diameter from stem to blossom end, are rather slim, averaging 1¼ to 1½ inches in diameter, without any bulge in the center, and with practically no taper at the ends. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**Chicago Pickling, or Westerfield's** 58 days. Early, heavy yield. A very prolific variety combining all the qualities desired by those who raise Cucumbers. Fruits are of uniform size and good color. Used almost exclusively by all large pickling houses. Ready for market in 58 days. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Improved Long Green** 68 days. A standard late, well known table sort. 12 to 14 inches long, slender, more or less warted, tapering towards the stem end, color dark green, flesh white and firm. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**White Spine** (Improved.) 58 days. A very fine, early strain. Fruit very rich, dark green, symmetrical, thick and nearly square ended, vigorous and productive. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.



Improved A & C

**Straight-8** 62 days. This outstanding variety produces symmetrical cylindrical fruits about 8 inches in length, and about 1½ inches in diameter. The fruits are well rounded at the ends. This is an ideal shipping variety. Oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

**Longfellow Cucumber** 72 days. An excellent long, slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. 12 to 14 inches long by 2½ inches in diameter. Fairly early, a good healthy grower; very productive. Oz., ¼ lb., 75c; 1 lb., \$2.50, postpaid.



Chicago Pickling

**Davis' Perfect** 58 days. Is one of the most prolific sorts. The fruit is long, slim and holds its color till nearly ripe. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.



## Kale or Borecole

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow from August 15th to October in rows 18 inches apart, and they will yield greens during fall and winter. They are improved by freezing.

**Dwarf Curled Scotch** 110 days. A handsome, very finely curled, dwarf, spreading variety, foliage long and an attractive bright green; very hardy. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Tall Curled Scotch** 110 days. Plants of this variety grow 2 to 3 feet in height, bearing long plumelike light green leaves, which are much cut and deeply curled at the edges. Very hardy. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## Eggplant

**CULTURAL DIRECTIONS.** One ounce to 1000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March, transplant about June 1st, in rows about three feet apart and two feet apart in the row. Eggplant requires a rich soil, free from disease and rotation of crop is recommended.

**Black Beauty** 80 days. Early and productive. Fruit large and of rich, glossy black color. Oz., 60c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.00, postpaid.

**New York Purple** 80 days. A favorite market variety. Fruits larger than the Black Beauty. The plant is large, spreading and spineless, producing 4 to 6 large, oval fruits of dark purple color. Oz., 60c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$7.00, postpaid.

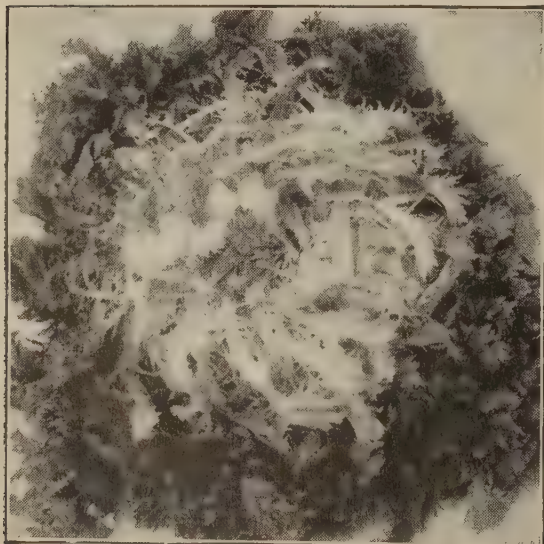
## Endive

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow in rows about 15 inches apart and thin to one foot apart in the row. Sow seed for fall crop in June or July. When nearly full grown, tie outer leaves together bringing them up over the head for blanching. A well balanced fertilizer is recommended.

**Long Green Curled** 95 days. The most hardy and vigorous sort, has very curly leaves, the mid-rib being white. After blanching, the leaves make a delicious and appetizing salad. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Moss Curled** 95 days. Grows more compact than the green curled and the medium green leaves are finer cut, blanches creamy white. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Broad-Leaved Batavian** (Escarolle). 90 days. One of the best varieties for salads; leaves of upright growth, broad, more or less twisted and waved, bright deep green, with a nearly white midrib. Inner leaves form a fair head which blanches a creamy white. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

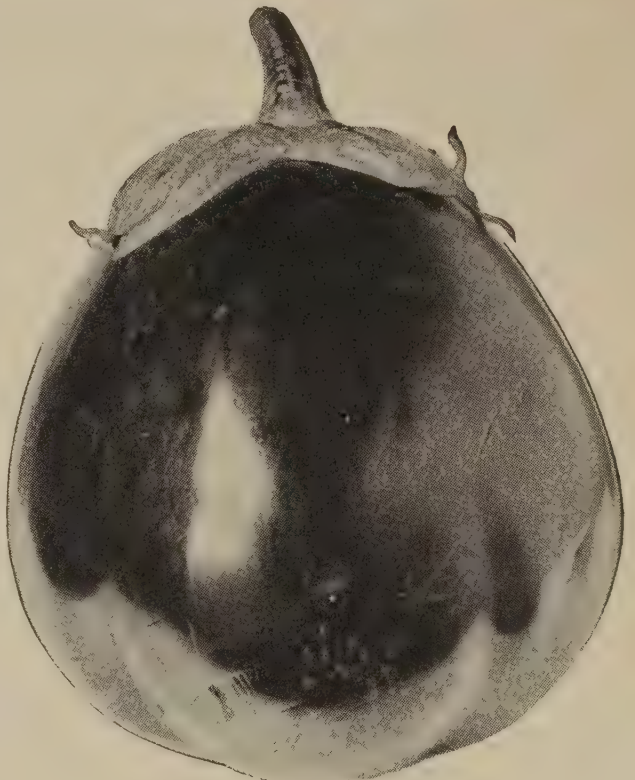


## Kohl-rabi Turnip-Rooted Cabbage

**CULTURAL DIRECTIONS.** One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for fall use. Should be used when young and tender.

### Early White Vienna

60 days. Very early, small tops, can be planted close together; best for forcing, or field culture. Oz., 30c;  $\frac{1}{4}$  lb., 95c; 1 lb., \$3.00, postpaid.



Black Beauty Eggplant

## Cress or Pepper Grass

**CULTURAL DIRECTIONS.** Sow early in the spring in rich, well prepared soil, in rows about fifteen inches apart. Thin to four inches apart in the row.

**Extra Curled** (Pepper Grass). A small, curled plant having a fine pungent flavor and used as a salad. Should be sown thickly and frequently, covering very lightly as it soon runs to seed. May be cut several times. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## Collards

**True Georgia** 75 days. Plant 2 to 3 ft. high forming a cluster of tender, undulated leaves at the top of its rather long stem; used as greens. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.



White Vienna Kohl-rabi



## Leek

**American Flag** 150 days. Stem about 10 inches long by 2 inches thick. A strong, vigorous plant with mild flavor. One of the best sorts for the market garden. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

**Elephant** (Monstrous Carentan). 150 days. Large stems 6 to 8 inches long, 2 to 3 inches thick. Leaves very dark green, hardy, prolific, for fall and early winter use. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

## Leaf Lettuce

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix pulverized hen manure with the soil and sow seed very early in the spring. For Leaf Lettuce, sow in rows twelve inches apart and do not thin until plants are big enough to use. Head Lettuce should be sown in rows twelve inches apart and thinned to eight inches apart in the row.

During warm weather, germination may be greatly aided in firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

### ★ Grand Rapids Forcing, Washington Strain

45 days. This splendid strain is one of the favorite strains, being used by all of the larger greenhouse growers who recommend it as a superior Lettuce. Mr. R. Yonker, one of our leading greenhouse growers, by careful plant selection, has kept it up to its original purity. It is absolutely true to type. Color a light green; heads very heavy; leaf crisp, tender and curly; quality the best. We grow our stock seed in the greenhouse and send to one of the best seed growers on the Coast to grow the seed crop. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

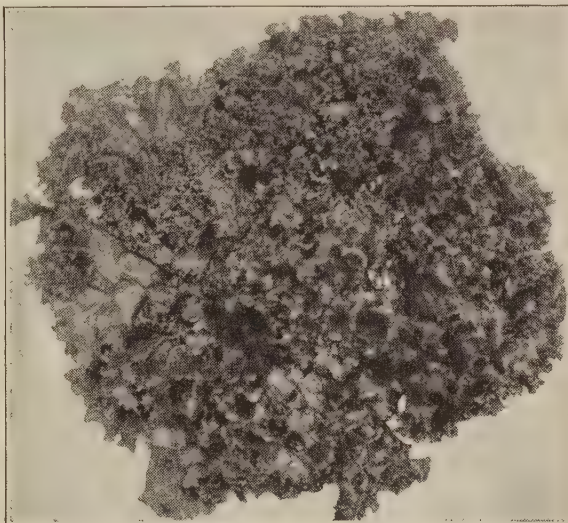
### Grand Rapids Tip-Burn Resistant

45 days. Color light green, somewhat like the Washington strain, being used for greenhouse growing where tip-burn is visible. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Slobolt** A new variety of the Grand Rapids type that is slow to bolt, developed by the United States Dept. of Agriculture and has a definite characteristic for withstanding high growing temperatures. Large, erect, compact, leaves broad, wavy, heavily fringed on the edges, tender, of light green color. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.



Grand Rapids Forcing, Washington Strain



Black-Seeded Simpson

### Early Curled Simpson

40 days. An early loose leaf variety. One of the best sorts for the home garden. Oz., 15c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

### ★ Black-Seeded

**Simpson** 40 days. One of the best loose leaf varieties for home garden or for the market garden, for outdoor sowing. Can be grown all through the season, very tender. Oz., 15c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

**Prizehead** 45 days. A crisp and tender loose-leaved, non-heading sort, color light brown on a medium green base, quality good. Oz., 15c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

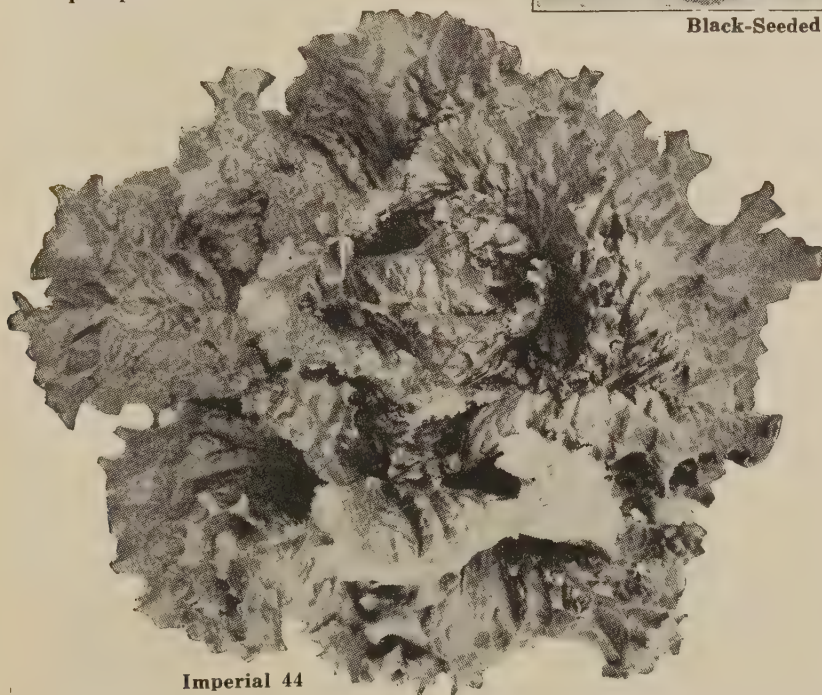
**Chicken** Tall, leafy, prolific. Dark green. Oz., 15c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

**Lettuce, Oak-Leaved** 43 days. A distinct Lettuce. Leaves are smooth but are deeply lobed to resemble the leaf of an oak tree. Medium large size, spreading, fairly dark green. Leaves are thick, succulent and tender. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

## Head Lettuce

**Big Boston** 76 days. Heads best in cool weather of early spring and late fall. We do not recommend it for the hot summer months. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**White Boston** 76 days. Has a fine, large, solid head and light green outer leaves, but does not have the brown edges. A tightly folded heart that blanches to a bright, creamy yellow shade. It is sweet and crisp. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.



Imperial 44





New York or Wonderful

### Head Lettuce—Continued

**Great Lakes** 83 days. A heading variety of the Imperial type, developed by the U. S. Dept. of Agriculture and the Michigan State College. Leaves large and well folded; heavy ribs. Shows considerable resistance to tip-burn and ability to head under adverse conditions. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Imperial 847** 83 days. Resistant to brown blight. Crisp heading plants of medium size. Leaves smooth, thick, medium light green. Heads round, well folded and firm. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.

**Bibb Lettuce** Oz., 25c;  $\frac{1}{4}$  lb., 85c; 1 lb., \$2.50, postpaid.

★ **Imperial No. 152** 82 days. New heading variety that is outstanding over other varieties. Resistant to brown blight, and well adapted for early fall planting. The heads are medium sized, hard, and attractive. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.

**Imperial 44** 82 days. This is somewhat similar to Imperial 152, being a hybrid from this popular variety. It has very long well-folded leaves and produces hard well-formed heads under ideal circumstances. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.

#### READ Roy E. Biles' "GARDEN MAGIC"

320 pages, 17 full color illustrations, hundreds of line drawings; practical, durable binding and gilt stamped; size 8x10 $\frac{3}{4}$  inches. \$3.50, postpaid.

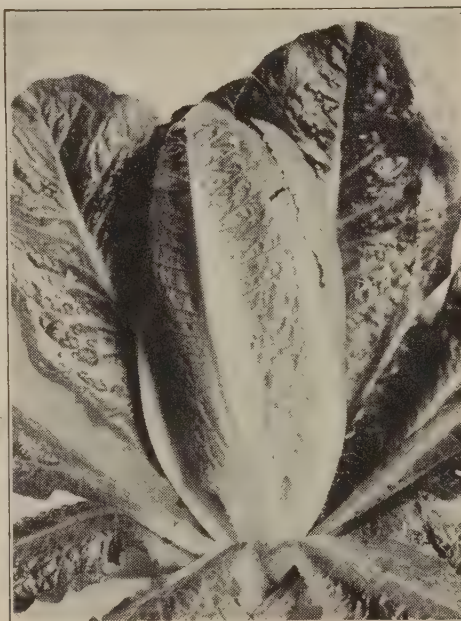
ALSO the **Modern Family Garden Book**, 160 pages, fully illustrated; size 7x10x $\frac{1}{2}$  inches. \$1.50, postpaid.

Plus 3% Michigan Sales Tax.

**Imperial 456** 82 days. Also known as Cornell 456. A true selection of the Imperial type. This strain shows greater resistance to tip burn than does the Imperial No. 44. Particularly adapted for muck soils. Frame and head slightly smaller than Great Lakes, but makes a firmer and harder head. It is a lighter green in color, and is also resistant to early bolting. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**New York No. 515 Improved** 81 days. Medium size, compact plant, but produces heads of good size. Head leaves quite upright at early stages of growth, but at maturity the heads are round and well formed. Color a rather light bright green. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.

**New York or Wonderful** 75 days. A large, late globular heading variety, leaves broad, of thick texture, fairly blistered and crumpled, and the borders frilled; color dark green, quality good. Known in California and the West as "Los Angeles" and shipped to eastern markets under the misleading name of "Iceberg." For an all-season variety it stands unrivaled. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.



Cos Lettuce

### Romaine or Early White

**Self-Folding Lettuce** 66 days. We consider this the very best strain of the Cos variety. Very uniform in type, and forms a compact, firm head. Color dark green outside and beautifully blanch inside. Very crisp; sweet. Oz., 25c;  $\frac{1}{4}$  lb., 85c; 1 lb., \$2.50, postpaid.

**Dark Green Cos** 70 days. A medium large dark green variety which forms a good sized, firm, well folded head. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.



Oak Leaved Lettuce

All prices quoted herein are subject to change without notice.

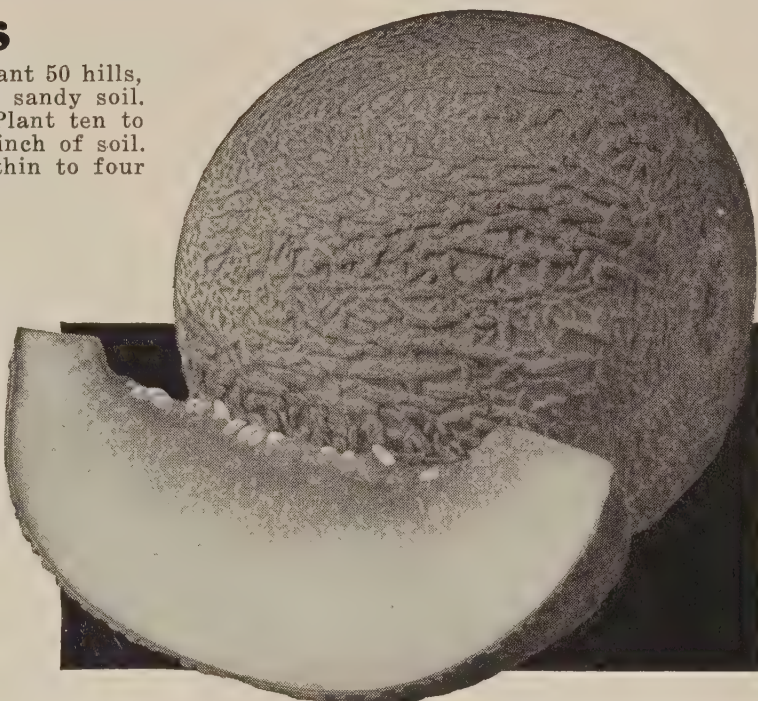


## Muskmelons

**CULTURAL DIRECTIONS.** One ounce will plant 50 hills, two pounds an acre. Melons do best in a rich, sandy soil. Hills should be from four to six feet apart. Plant ten to twelve seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects is past, thin to four good plants to the hill.

★**Hearts of Gold** 88 days. A splendid small, midseason variety. Fruit round, 6 inches long and 5½ inches in diameter, weighing 3 to 3½ lbs., with a tendency to heart shape, lightly ribbed and covered with a fine gray netting; flesh very thick, deep salmon color, and of high quality; a good shipping Melon. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

★**Honey Rock** 80 days. One of the most prolific varieties grown. The fruit is round, slightly flattened at the ends, 5 to 6 inches in diameter, weighing 3 to 4 lbs., and distinctly netted. The flesh is soft pink with a greenish tint. The rind is hard and the flesh so firm that it is an excellent shipper. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.



Honey Rock Muskmelon



Hearts of Gold

**Pride of Wisconsin** (Market King). 85 days. Similar in size and shape to Honey Rock. Oval in shape with tough, heavily netted rind. 6 inches long and 5½ inches in diameter, weighing 3½ to 4½ lbs. Flesh deep orange and very thick. Sweet and of excellent quality. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**Hale's Best** 82 days. Is fairly early; a good shipper, oval in shape, averaging 5 in. in diameter and 7 to 9 in. long, with heavy netting, and fairly prominent ribs. The flesh is a rich deep salmon color with a very fine flavor. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**No. 10 PYROCIDE DUST** is the control measure against beetles and other insects. Apply promptly and grow your Melons without any trouble. Circular free on request.

**Iroquois** 90 days. This new melon has definite resistance to Fusarium wilt. Fruits are round to oval, about 6½ inches in diameter, with prominent ribs and good netting; the rind is tough and holds up well. Flesh is deep orange color, of fine texture and excellent quality. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**Schoon's Hard Shell** 90 days. Thick, oval, prominent ribbing with abundant coarse netting, skin gray-green becoming yellow at maturity; flesh very thick, deep salmon-orange, well flavored, excellent quality. 6½ to 7½ inches in diameter, weighing 5 to 7 lbs. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

**Early Osage** 84 days. Standard variety of splendid quality for nearby markets and home gardens. Fruits 6 to 7 inches long; almost round; with shallow furrows and sparse shallow netting. Flesh very thick; salmon-orange; fine grained, sweet and aromatic. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.



Pride of Wisconsin



## Selected Varieties of Watermelon

**CULTURAL DIRECTIONS.** One ounce to 30 hills, about four pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.

**Cole's Early** 75 days. The best extremely early variety; fruits medium size, broad oval; weighing 10 to 12 lbs., dark green stripes alternate with lighter; rind brittle, flesh bright red of good quality, seeds blackish. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Tom Watson** 92 days. Produces Melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 35 to 40 lbs. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

### ★ Kleckley's Sweet or Monte Cristo

85 days. One of the sweetest melons on the market; medium early, long, averaging 18 to 20 inches, slightly tapering to the stem end, weighing 30 to 40 lbs. Rind very dark green, flesh very bright red and ripens nearly to the rind. Too tender for a shipping Melon, but excellent for market and home garden. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

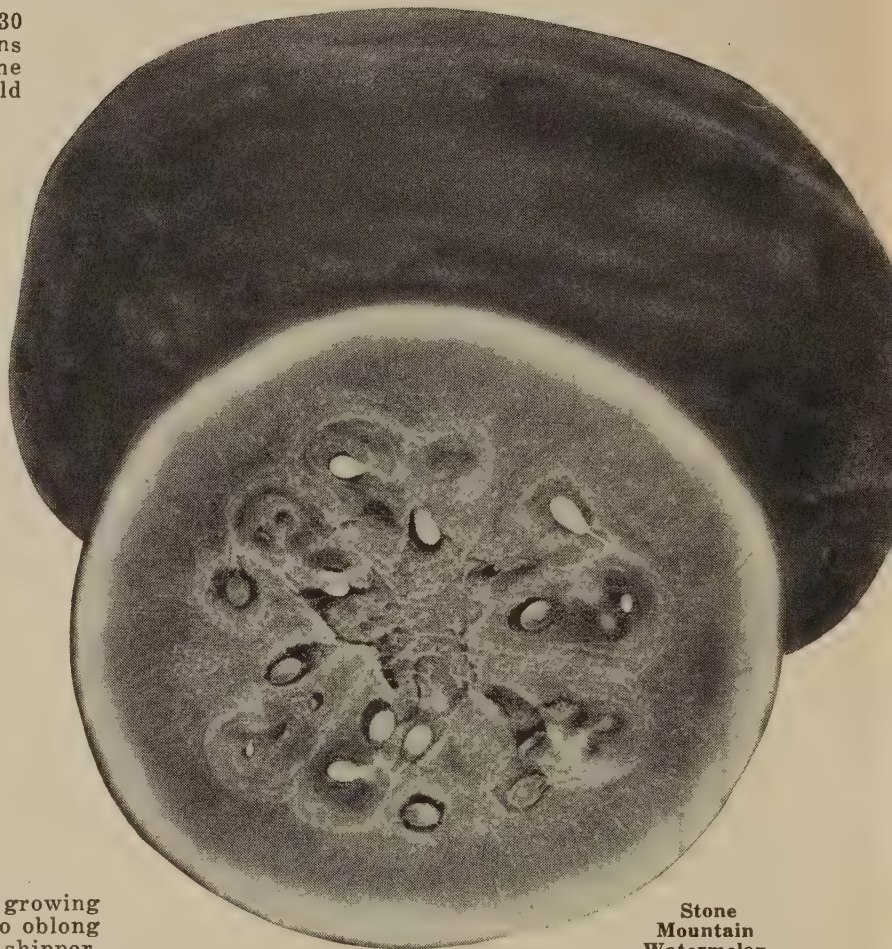
**Peerless or Ice Cream** 85 days. An old standby. Medium early; fruit oblong, weighing 18 to 20 lbs.; rind light green, mottled and veined; flesh scarlet, solid to center, sweet, melting and delicious. Not a good shipper. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Sweetheart** 85 days. A medium early variety growing to a large size; a heavy, round to oblong form with rather thick, tough rind and a good shipper, weighing 20 to 25 lbs. Color very light green, flesh bright red, with black seeds. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Citron, Red Seeded** 90 days. The old well known red-seeded preserving Melon. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Stone Mountain** 90 days. This variety combines extra large size with earliness. It is nearly round in shape, pleasingly green in color and unexcelled for sweetness and juiciness. Fruits weigh from 35 to 40 pounds in the South, and the 95 days required for maturity make it easily possible to grow correspondingly large fruits in the North. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Irish Grey** 95 days. Especially valuable for distant shipping. Fruits large oblong; uniform light grayish green, rind extremely hard and rough; flesh bright red, of good quality, weighing around 35 lbs. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Stone Mountain Watermelon

**Dixie Queen** 85 days. A new variety, for the market and the home garden. Excellent quality, fruit nearly round, with light and dark green stripes, growing to a good size. Rind thin, but tough—flesh bright scarlet, solid, of fine texture, weighing around 30 lbs. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

## Mustard

**Southern Giant Curled** 30 days. Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the edges. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

**Large Smooth-Leaf** 50 days. Large, vigorous leaves, large, broad and oval, deep green, margin toothed but otherwise plain. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

## Okra or Gumbo

**White Velvet** 60 days. Plants 3½ feet high, pods white, long, smooth and tender; early and productive. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

### Perkins Mammoth Long Pod

56 days. For home and market garden. Plants 4 to 5 feet tall, pods dark green, fleshy, tender, becoming 7 to 8 inches long. Distinctly ribbed and tapered. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



Kleckley's Sweet or Monte Cristo

★ This variety recommended by the Michigan State College.



# Choice Onion Seed

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; about four pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 2-8-16 fertilizer. Drill in rows about a foot apart.



Extra Early  
Yellow Globe

**Buckskin Yellow Globe** 109 days. Used on muck soils. An exceptionally good yielder that produces very hard bulbs with a tight skin. A splendid keeper. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

★ **Extra Early Yellow Globe** 98 days. Excellent semi-globe shaped and is a good yielder. It ripens well, and under normal conditions the bulbs are ready for market 10 days ahead of the Southport Yellow Globe. The color is a rich deep yellow and it can be kept in storage for a limited time. Oz., 50c;  $\frac{1}{4}$  lb., \$1.25; 1 lb., \$4.50, postpaid.



Yellow Globe

## ★ "BRIGHAM STRAIN" The Long Keeping Onion

109 days. The seed stock for this fine strain of Onion seed is grown under our own supervision. The bulbs used are very carefully selected to insure our users that this variety is pure. Bulbs are selected for type and quality, and produce larger Onions with a vigorous growth. Onions grown from our seed stock are very good keepers, globe shaped with a rich golden color. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

★ **Southport Yellow Globe** 110 days. This Onion is our yellow market variety. It is very uniform as to size. A good yielder, and recommended for its keeping qualities in storage. A handsome yellow globe variety. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

We will be pleased to quote you special prices on larger quantities. Specify the amount you want and let us quote you.



Sweet Spanish  
Grower's Strain

## Sweet Spanish

**Michigan State Sweet Spanish** This is an improved strain of Sweet Spanish, developed by Dr. Harmer of the Michigan State College. It has been selected and developed for a long keeping storage Onion. Very productive, good color, and fine for shipping. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

**Utah Sweet Spanish** 110 days. Desirable because of its deep yellow color, excellent keeping qualities, thicker skin and uniformity in size. Bulbs are globe in shape at about  $2\frac{1}{2}$  to 3 inches, when larger they assume a slightly flattened globe shape. Flesh white and of mild, pleasing flavor. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

**Sweet Spanish, Grower's Strain** 110 days. The largest yielder of the yellow Onions, averaging 3 to 4 inches in diameter. The best and not susceptible to the attack of thrip. Good keeper and shipper. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

**White Sweet Spanish** 110 days. Similar to the original Sweet Spanish, except that it is white with glistening skin. Globe-shaped. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

★ This variety recommended by the Michigan State College.



## ONION SEEDS—Continued

**Ebenezer** An excellent variety for producing sets of exceptional keeping qualities. Bulbs deep flat, of medium size; dark yellow, very firm with thick skin. Oz., 30c;  $\frac{1}{4}$  lb., 95c; 1 lb., \$3.00, postpaid.

**Prizetaker or Mammoth Yellow Spanish** 105 days. Very large, and nearly round, light straw color, very mild and sweet. Late. Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$6.50, postpaid.

**Yellow Globe Danvers** 105 days. A popular dependable variety. Is an exceptional keeper. Oz., 50c;  $\frac{1}{4}$  lb., \$1.50; 1 lb., \$4.25, postpaid.

★**Southport White Globe** 120 days. Same type as Southport Yellow Globe, with a thin delicate skin of pure paper whiteness, but two weeks earlier and exceedingly mild. It usually commands the highest price on the market. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

**White Barletta** 65 days. One of the earliest, handsomest and smallest of white pickling Onions. Makes a good bunching sort. Oz., 50c;  $\frac{1}{4}$  lb., \$1.50; 1 lb., \$5.00, postpaid.

**White Portugal or Silverskin** 100 days. An early flat white Onion of mild flavor. Used mostly to grow sets. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

**Long Bunching (Heshiko)** (American Grown). A new perennial bunching onion that does not form a bulb. Oz., 50c;  $\frac{1}{4}$  lb., \$1.60; 1 lb., \$5.50, postpaid.

## Chives

A hardy perennial of the onion type. Listed under "Herbs" on page 24. Pkt., 10c; oz., \$1.50;  $\frac{1}{4}$  lb., \$4.50, postpaid.

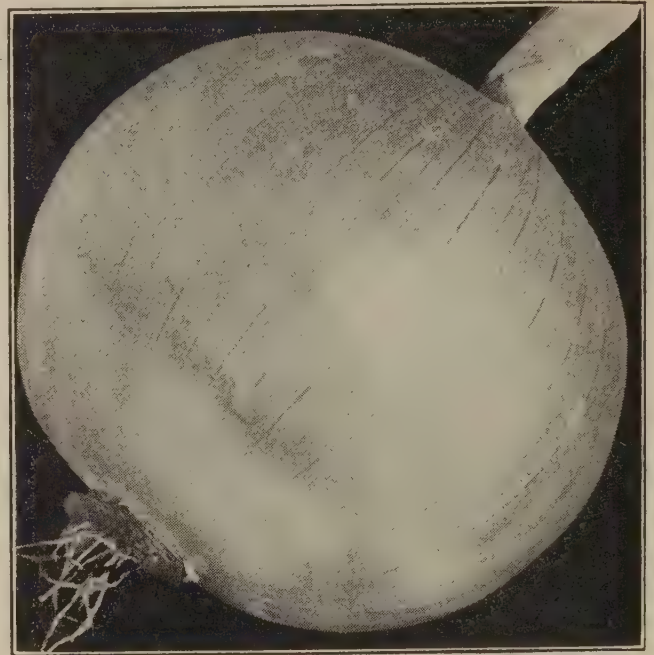


## Onion Sets and Plants

We can supply the Silverskin, Yellow Ebenezer, Yellow Globe or the English Multiplier sets, as well as Texas Bermuda Onion plants, and will solicit your inquiries.



"Paramount" Moss-Curved Parsley



Southport White Globe

## Parsley

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows about 15 inches apart, and thin to four or five inches apart in the row. Parsley requires a rich soil.

**Triple Curled or Moss Curled** 85 days. (Paramount.) Plant handsome, beautifully curled and rapid grower. Will produce a large crop. Oz., 15c;  $\frac{1}{4}$  lb., 45c; 1 lb., \$1.25, postpaid.

**Hamburg Rooted** 90 days. Grown for the root which resembles a Parsnip in shape and color. Foliage very much like plain Parsley. Oz., 15c;  $\frac{1}{4}$  lb., 45c; 1 lb., \$1.25, postpaid.

## Parsnips

**CULTURAL DIRECTIONS.** One ounce will sow 100 feet of drill; three to four pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly, thin as for Carrots. Seed does not germinate well unless conditions are just right.

**Hollow Crown** 130 days. Thick shoulder. This variety is more generally grown than any other sort; roots smooth, tender and sugary. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Long Smooth Dutch or Sugar** 130 days. Roots very long, slim, much sweeter than the Hollow Crown. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Short Thick** 100 days. A fine bunch vegetable, tops one-half size of Hollow Crown. Short, thick roots, free from strings, flavor much more delicate than other varieties of Parsnips. Fully a month earlier than Hollow Crown and reaches maturity in 100 days. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

Hollow Crown Parsnip

## Strawberry Plants

Dunlap, Premier or Everbearing. We will have good, sturdy plants in season, and solicit your inquiries.

★ This variety recommended by the Michigan State College.



# Garden Peas

**CULTURAL DIRECTIONS.** One quart will plant 100 feet of drill; about 56 pounds per acre. Peas do best on rich, sandy loam that has been well manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

**Little Marvel or Dark Podded Sutton's Excelsior** 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches, well filled with deliciously sweet peas. Vines about 15 inches in height. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

**Little Gem** 58 days. A second early, hardy variety. Prolific, bearing pods on both sides of the stalk, beginning near the ground. Pods medium length, round, and well filled to the end. Height of vine about 15 inches. Seed green, wrinkled. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

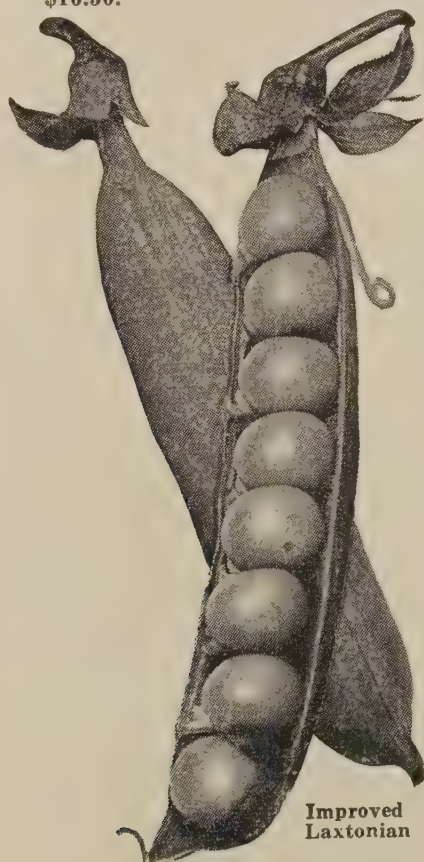
**Alaska** 57 days. A small, smooth blue Pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vines about two feet in height, pods small, but well filled. Can nearly all be harvested at one picking. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 15 lbs. (1 pk.), \$2.80; 60 lbs. (1 bu.), \$10.50.

**American Wonder** 60 days. One of the earliest and sweetest wrinkled Peas. Vines very dwarf and productive. Pods small, but well filled. The most delicious Pea for the home garden. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

★ **Improved Laxtonian** 62 days. The best of the Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches, broad, containing eight large peas of excellent quality. The best second early, big-podded sort. Suitable for quick freezing. Lb., 35c, postpaid. Not prepaid, 5 lbs., \$1.50; 14 lbs. (1 pk.), \$3.00; 56 lbs. (1 bu.), \$12.00.

**Champion of England** 80 days. Vines 4 to 5 feet in height, productive. Pods 2 to 3 inches long, broad and well filled. Peas medium size, of unsurpassed sweetness. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

★ **World's Record** 58 days. A new variety on the order of Gradus, being slightly earlier, more productive and true to a fixed type. Grows about 2 feet in height, with large, dark green pods nearly 4 inches in length, broad, pointed and always well filled with large, sweet peas of splendid quality. An excellent, profitable sort for home or market garden. Suitable for quick freezing. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.



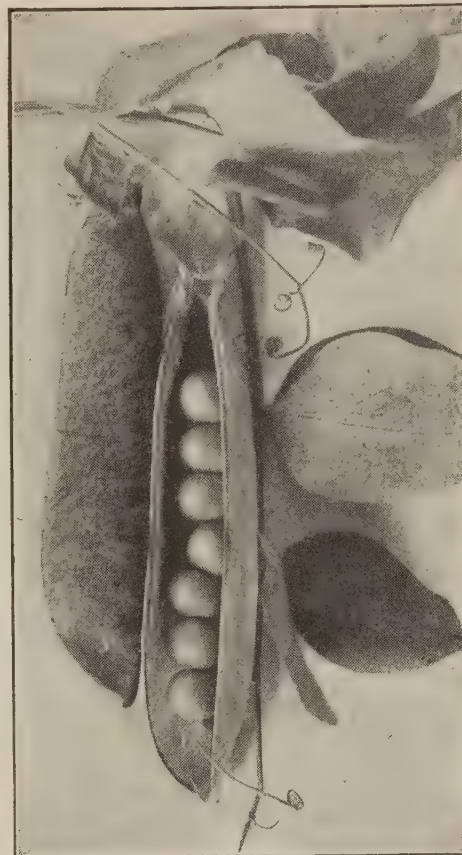
Improved Laxtonian

## ★ Thomas Laxton

62 days. One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunt-ended and well filled with large Peas. Peas wrinkled. Suitable for quick freezing. Lb., 35c, postpaid. Not prepaid, 5 lbs., \$1.50; 14 lbs. (1 pk.), \$3.00; 56 lbs. (1 bu.), \$12.00.

## ★ Dwarf Telephone

A splendid main crop Pea, coming between the Telephone and Stratagem. Of the Stratagem type, but a heavier yielder. Height 2½ feet. Foliage very heavy, sturdy and dark green. Pods 4¼ inches long, dark green, broad, straight and pointed, containing nine large, medium dark green peas of the best quality. Suitable for quick freezing. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.



Little Marvel Peas

★ **Alderman** 72 days. A little later than the Telephone. Vines about four feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Suitable for quick freezing. Lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

**Laxton's Progress** 60 days. Splendid variety for home, market garden and shipping. Vines dwarf, about 22 inches, dark green, prolific. Pods 4¼ inches long, handsome; dark green; plump, tapered at ends. Seeds large, wrinkled, cream, interior yellow. Suitable for quick freezing. Lb., 35c, postpaid. Not prepaid, 5 lbs., \$1.50; 14 lbs. (1 pk.), \$3.00; 56 lbs. (1 bu.), \$12.00.

**Telephone** 72 days. A standard high quality, large-podded Pea, for main crop; productive; height 4½ feet. Vine and foliage strong and heavy, medium green. Pods 4½ inches long, medium green, straight, broad and pointed, well filled. Suitable for quick freezing. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

## Edible Pod Sugar Peas

The pods of the two varieties listed below are cooked with the peas. They have a high sugar content and make a delicious dish, and once tried, they will be regularly grown.

**Dwarf Gray Sugar** 62 days. A dwarf, edible pod variety. Vines about two feet high. Cook pods like string Beans. Lb., 35c; postpaid. Not prepaid, 5 lbs., \$1.50; 14 lbs. (1 pk.), \$3.00; 56 lbs. (1 bu.), \$12.00.

**Melting Sugar, or Edible Pod** 70 days. A tall variety, bearing large, flat, brittle pods. These are sweet and are cut or broken and cooked like string Beans. It is a delicious vegetable and should be better known and more generally used. Lb., 35c, postpaid. Not prepaid, 5 lbs., \$1.50; 14 lbs. (1 pk.), \$3.00; 56 lbs. (1 bu.), \$12.00.



## Peppers



California  
Wonder  
Pepper

**Bull Nose or Large Bell** 55 days. Large, bell-shaped, thick-fleshed fruit. Good for Mango pickles. Oz., 45c;  $\frac{1}{4}$  lb., \$1.50; 1 lb., \$5.00, postpaid.

**World Beater** 70 days. The most prolific large Pepper. Fruit very large, about 5 inches long. Flesh thick, mild and sweet. Pepper tapering and of a bright ruby color when ripe and very attractive. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Ruby King** 65 days. One of the most profitable and satisfactory varieties for the home or market garden; plants are early, productive and of dwarf compact, upright growth; fruits pendent, often 4 to 6 inches long by 3 to 4 inches thick, tapering and of a bright ruby-red color; flesh is thick, mild and sweet. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Red Chili** 85 days. Small, red, cone-shaped. Very hot and prolific. Used for seasoning. Oz., 40c;  $\frac{1}{4}$  lb., \$1.50; 1 lb., \$5.00, postpaid.

**Neapolitan** 60 days. A very early, medium large, prolific variety. Fruits upright in growth, three-lobed, yellowish green, becoming bright red, flesh extremely mild and sweet. Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$6.50, postpaid.

## Pumpkins

**CULTURAL DIRECTIONS.** One ounce of seed for 20 hills. About 3 pounds per acre. Usually grown in cornfields, but can be grown as a separate crop. Seed should be planted in hills 8 to 10 feet apart each way, after soil gets warm. Cultivate until vines begin to run. Cut Pumpkins after leaves die, leaving 3 to 4 inches of stem attached to fruit. Store in a dry place, and do not bruise.

**Connecticut Field** 70 days. Generally used for planting in corn for stock feeding; also makes good pies. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**King of the Mammoths** 120 days. The giant among Pumpkins. Often grows two feet or more in diameter. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

★ **Sugar Pie** 108 days. Fruit small, round, flattened at the ends, and slightly ribbed. Skin and flesh deep orange-yellow. Flesh very thick and of high quality. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Winter Luxury** 100 days. Round, medium in size, with a golden yellow skin closely netted like a netted muskmelon; sweet and finely flavored and an exceptionally good keeper. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**CULTURAL DIRECTIONS.** One ounce will produce about 2000 plants; about 7000 plants for an acre. Sow seed in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about three feet apart and eighteen inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

**California Wonder** 72 days. Thickness of flesh alone, which is often  $\frac{3}{8}$  of an inch, places this sweet pepper above all others. Vigorous growing plants, blocky fruit 5 inches long and 4 inches wide. When fully matured, it has a waxed appearance. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Oakview Wonder** 63 days. An earlier and more productive strain of California Wonder. Fruits blocky, smooth, with thick, mild, sweet flesh. Plants shorter and stockier but fruits are set earlier and more abundantly. An outstanding strain unsurpassed for shipping and for the home and market garden. Oz., 70c;  $\frac{1}{4}$  lb., \$2.20; 1 lb., \$7.00, postpaid.

**Chinese Giant** 80 days. Mammoth fruits 12 to 15 inches in circumference. Flesh thick, tender, mild and sweet. Oz., 70c;  $\frac{1}{4}$  lb., \$2.20; 1 lb., \$7.00, postpaid.

**Harris' Early Giant** 63 days. The earliest and most prolific of all large Peppers. Is of dwarf, compact growth, bearing as many as 12 pendent fruits on a single plant. Fruit scarlet, measuring 5 inches long by  $3\frac{1}{2}$  inches in diameter; three-lobed, mild and sweet. A profitable Pepper for the market. Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$6.50, postpaid.

**Pimento** 73 days. A rather late, very thick-fleshed, heart-shaped, smooth, mild, crimson variety; much used for salads. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Long Red Cayenne** 70 days. Pendent fruits about 5 inches long and  $\frac{3}{4}$  inch in diameter at the base, often curved and twisted; bright red, hot and pungent. Oz., 50c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

**Hungarian Yellow Sweet** 60 days. Considered the first early Pepper in the season. Plant is 12 to 15 inches in height, very hardy, and prolific, bearing fruit both upright and pendent. The fruit is from  $5\frac{1}{2}$  to 6 inches long by  $1\frac{1}{2}$  inches in diameter, tapered, smooth flesh; is fairly thick and pungent. Color is waxy yellow, becoming a bright red at maturity. Oz., 65c;  $\frac{1}{4}$  lb., \$2.25; 1 lb., \$8.00, postpaid.

**Hungarian Yellow Wax** (Hot.) 60 days. Very early. Desirable for home, market garden and canning. Plants small, heavily productive. Fruits 6 to 7 inches long, 2 inches thick, tapered, smooth, waxy light yellow becoming bright red. Flesh thick, pungent. Oz., 65c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$6.50, postpaid.

**Sweet Banana** 65 days. The plant is 20 to 24 inches tall, upright, dark green, very vigorous, heavy foliage of large leaves. Fruit  $6\frac{1}{2}$  to  $7\frac{1}{2}$  inches long,  $1\frac{1}{2}$  inches in diameter, tapered to the point with very slight curve; sweet, medium flesh wall, light yellow turning to bright red at maturity. Is an excellent variety for home and garden. Oz., \$1.00;  $\frac{1}{4}$  lb., \$3.00; 1 lb., \$10.00, postpaid.

Sugar or Pie  
Pumpkin







Grand Rapids Forcing Radish

**CANADIAN CUSTOMERS**

We will accept your order only on remittance payable in United States funds or its equal. Notice announcement on page 3.

★ **Early Scarlet Globe** 20 days. We have an exceptionally fine stock of this grand variety, which has been tested by having crops grown both in greenhouses and outdoors. Our new stock will not be sold until it is tested. It is one of the earliest forcing radishes, and does equally as well for outdoor culture. Roots are globe-shaped, of fair size, not apt to be pithy, small tops, crisp and tender, color



White Icicle

bright scarlet. A scarlet globe variety with a medium top. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid. Not prepaid, 10 lbs., 85c per lb. 25 lbs. or more at 75c per lb.

**Cavalier** 25 days. A highly colored and attractive variety for all purposes and especially for shipping. Tops small, roots oblong-globe, very firm and of bright red color. Especially adapted for growing on muck soils. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid. Not prepaid, 10 lbs., 85c per lb. 25 lbs. or more at 75c per lb.

**Comet** 25 days. Brightest colored of the bunching Radishes. Globe shaped, suitable for use when ⅝ to ¾ inches in diameter, but become much larger without growing pithy. Tops are slightly larger than Scarlet Globe. Roots attractive, bright clear red. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Icicle** (Short Top.) 25 days. One of the earliest long varieties, white throughout. Very crisp and tender. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.10, postpaid.

**French Breakfast** 20 days. Of oblong shape, small, quick growing, color rose-scarlet, with small white tip. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Cooper's Sparkler** 20 days. White tip, quite similar to Scarlet Turnip White Tip as to size and time of maturity, only the Sparkler is more round or ball-shaped, and the white extends farther up the radish, making a more attractive bulb. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Scarlet Turnip White Tipped** 25 days. Round, deep scarlet, shading to a white tip at the bottom. Very early. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Crimson Giant** 28 days. Larger than any other extra early variety but does not become pithy. Crimson-carmine, turnip-shaped, flesh firm, crisp and tender. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Grand Rapids Forcing** 20 days. New, improved. The best greenhouse variety and the earliest of the Scarlet Globe type, but superior in every way for greenhouse forcing. When properly grown it is the most handsome and best forcing sort with the shortest top and the Radishes are ready to pull before you realize it on this account. A scarlet globe variety with a short top. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid; 10-lb. lot, 85c per lb., not postpaid. 25 lbs. or more at 75c per lb.

The Grand Rapids Forcing Varieties are nationally known. Turn to the others: Lettuce is described on page 15; Tomatoes on page 27 also the inside front cover.

Radishes prefer a deep, rich, sandy soil and an application of a well balanced fertilizer.



Early Scarlet Globe

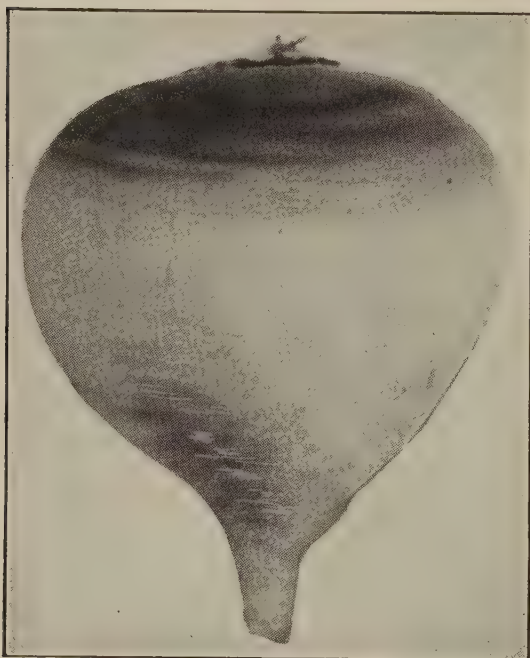


## The Best Winter Radishes

**White Winter** (Celestial.) 60 days. Roots six to eight inches long, thick, cylindrical and smooth, with a beautiful white skin and flesh, the whitest and least pungent of the winter radishes. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Chinese Rose Winter** 52 days. Roots four or five inches long, blunt at both ends, about two inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best winter sorts. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Long Black Spanish** 56 days. One of the latest and hardiest varieties for winter use; roots 8 to 9 inches long, 2 to 3 inches in diameter, and nearly black in color. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



American Purple Top Rutabaga

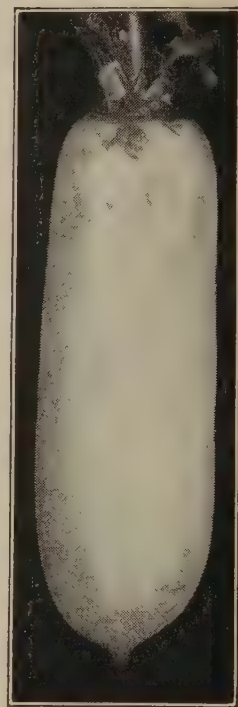
**Round Black Spanish** 56 days. Round, 3 to 4 inches in diameter. Skin almost black; flesh white, crisp and pungent. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

## Rutabagas

Mature in 100 days.

**American Purple Top** A hardy, productive variety with small neck; roots large, globe-shaped, with small tap roots, bright yellow in color with purple top, solid, tender and sweet. Our strain is the best available. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.

**Canadian Gem** (Laurentian Neckless). A strain of Purple Top Swede, much preferred in Canada. Tops short, practically neckless. Roots large, spherical, purplish red above ground, light yellow below. Flesh creamy yellow, firm, mild and sweet. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.



Celestial White Winter

## Rhubarb

**Victoria** One of the best market sorts; stalks a beautiful red. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

## Salsify or Vegetable Oyster

**CULTURAL DIRECTIONS.** One ounce to 75 feet of drill; 5 or 6 pounds to the acre. Sow the seed early in the spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. Like parsnips, they may be left in the ground all winter and dug as soon as the ground is thawed. Salsify prefers a deep, rich sandy soil.

**Mammoth Sandwich Island** 150 days. A splendid variety producing large, thick, tapering white roots, very uniform, mild and delicious in flavor. A popular sort with the market gardeners. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.50, postpaid.



Salsify

## Aromatic, Medicinal and Pot Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.

**ANISE.** Used for garnishing, seasoning and for cordials. Pkt., 10c, postpaid.

**BASIL, SWEET.** Annual. About 12 inches tall. Entire plant has fragrant, somewhat spicy aroma; used for seasoning. Pkt., 10c.

**CARAWAY.** Seeds are used for flavoring breads, pastry, meats, etc. Pkt., 10c, postpaid.

**CELERIAC or TURNIP-ROOTED CELERY.** Giant Prague. Pkt., 10c, postpaid.

**CHICORY (French Endive).** Used extensively for salads. The new leaf growth forms a compact blanched head with broad, crisp leaves, having a pleasantly sharp flavor. Pkt., 10c, postpaid.

**CHIVES.** Hardy perennial plants of the onion type. Easily grown from seeds. The small leaves are used for seasoning. Pkt., 10c; oz., \$1.50; ¼ lb., \$4.50, postpaid.

**CORIANDER.** The seeds are used for flavoring. Pkt., 10c, postpaid.

**DANDELION.** Improved thick leaf. Very superior strain. Makes vigorous, very compact growth. Leaves 18 to 24 inches across, thick in texture and blanch readily. Pkt., 10c, postpaid.

**DILL.** Leaves are used in pickles and for flavoring soups and sauces. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**LAVENDER.** True. Perennial. Flowers are dried and placed in the linen closet to impart their perfume to the linens. Also used as a repellent to moths. Pkt., 10c, postpaid.

**FLORENCE FENNEL.** Grown in home and market garden. Plant 2 to 3 feet tall. Chiefly grown for the bulblike structure formed by the enveloping thickened bases of the stalks of the lower leaves. This is aromatic and of a delicate sweet flavor. Pkt., 10c, postpaid.

**SAGE.** The most extensively used of any herb. An indispensable perennial. Very aromatic. Oz., \$1.50; pkt., 25c, postpaid. Very scarce.

**SAFFRON.** Used for coloring certain dishes, also flavoring. Pkt., 10c, postpaid.

**SUMMER SAVORY.** The leaves and young shoots are used for flavoring. Pkt., 10c, postpaid.

**THYME.** Hardy perennial, 8 to 10 inches tall, of strong, agreeable, aromatic odor and flavor; used in medicine and for seasoning culinary preparations. Pkt., 10c; 1 oz., \$2.00, postpaid.

All prices quoted herein are subject to change without notice.



# Spinach Improved Varieties

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; eight to ten pounds per acre. Sow early for spring crop; in August for fall use; and if sown from the middle to last of September, and protected during the winter with a light covering of straw, it will be ready for use very early in the spring.

A fertilizer high in nitrogen and phosphate is recommended, especially for sandy soils.

During warm weather, germination may be greatly aided by firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

★ **Long Standing Bloomsdale** 42 days. It is early and hardy and a decided improvement on the old strain. Will stand ten to fourteen days before bolting to seed; has a heavier leaf texture, more crumpled or savoyed, and will also resist the heat much better. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not prepaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

**Round Summer Thick Leaved** 45 days. An old standard. Grand Rapids growers use this variety very largely for main crop for spring, summer and fall. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.



Virginia Savoy Blight Resistant

**Giant Nobel** 45 days. Similar to Thick Leaf. An erect, vigorous growing, long standing Spinach, slow to run to seed. Leaves large, unusually broad, firm and thick, with a rounded top. Smooth, medium green in color and the largest of any Spinach. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

**Viking** 45 days. Imported seed to meet the demands of the most critical trade. This new variety may well be described as a dark green Nobel. Excellent for market gardens and canning. Plant large, spreading, vigorous, thick and dark green. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

**Heavy Pack** 48 days. Imported seed to meet the demands of the most critical trade. This is a good strain of Viking. Plants are strong and vigorous with large, medium green, slightly crumpled thick leaves on short stalks. Color is intermediate between Nobel and King of Denmark. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

Write for Special Prices  
in Larger Quantities

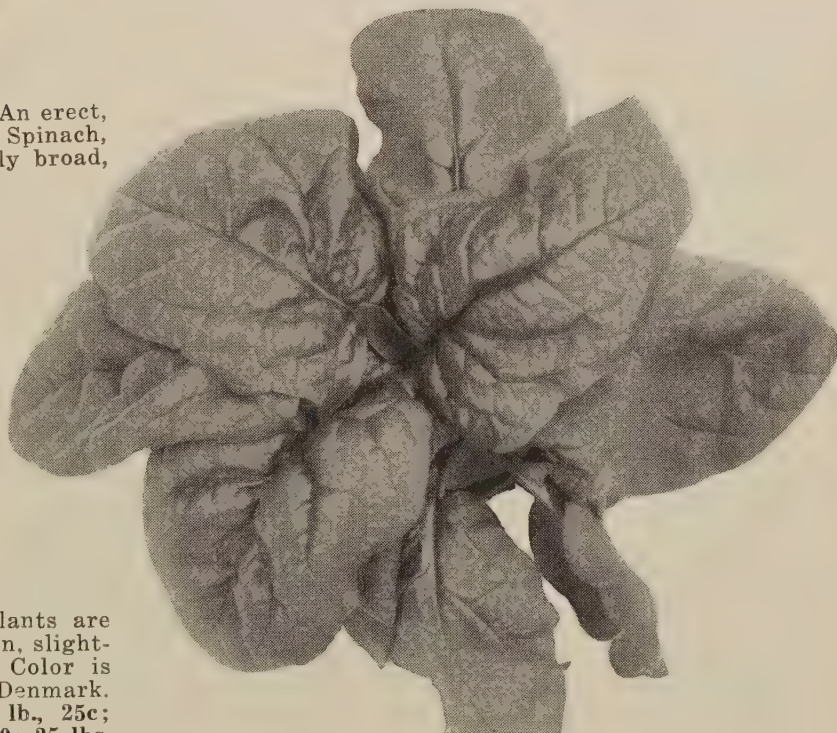
Long Standing  
Bloomsdale



★ **King of Denmark** 48 days. Imported seed to meet the demands of the most critical trade. A standard variety for market gardeners, for spring planting. It will stand longer than any other variety before going to seed. Leaves large, rounded, and somewhat blistered. Color very deep green. Heavy yielder and excellent quality. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

**Virginia Savoy Blight-Resistant Spinach** 40 days. Imported seed to meet the demand of the most critical trade. Virginia Savoy is characterized by the large leaves and general Flanders type of growth. The low-growing, wide-spreading habit makes it most desirable for winter Spinach. Plants of this type attain a very large size in late fall and carry well into early spring. A single plant often weighs more than a pound. Suitable for quick freezing. Oz., 10c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not prepaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

**New Zealand** 60 days. Entirely distinct from the other varieties. Plant tall and spreading, leaves medium green, rather small and pointed. Prickly seeded. Oz., 20c; ¼ lb., 65c; 1 lb., \$2.25, postpaid.



Giant Nobel



# Squash

**CULTURAL DIRECTIONS.** For Summer Squash, one ounce to 25 hills; two to three pounds per acre. For Winter Squash, one ounce to ten hills; about three pounds per acre. After danger of frost is past, plant eight to ten seeds to the hill for Summer sorts, about four feet apart, the last of May; and Winter varieties in hills about eight feet apart, from the middle of June to July first. Do not bruise or break the stems of Winter Squash when gathering. Store in a cool, dry place.

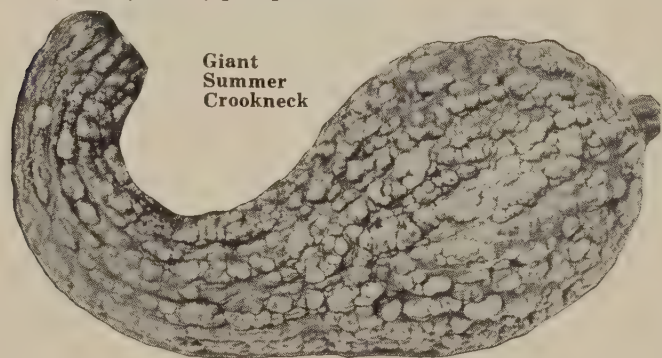
**Early Prolific Straightneck** 50 days. A high yielding summer squash. Fruits straight, smooth, and of delicate creamy color. Will grow 12 to 14 inches long but can be eaten when smaller. Quality unsurpassed. Oz., 15c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

**Summer Crookneck** 55 days. The largest and one of the earliest summer varieties; fruits often 2 to 2½ feet long; very warty and deep orange in color. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Golden Summer Crookneck** 55 days. A standard early and productive summer squash; fruits about a foot long, moderately warted and of a bright yellow color. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

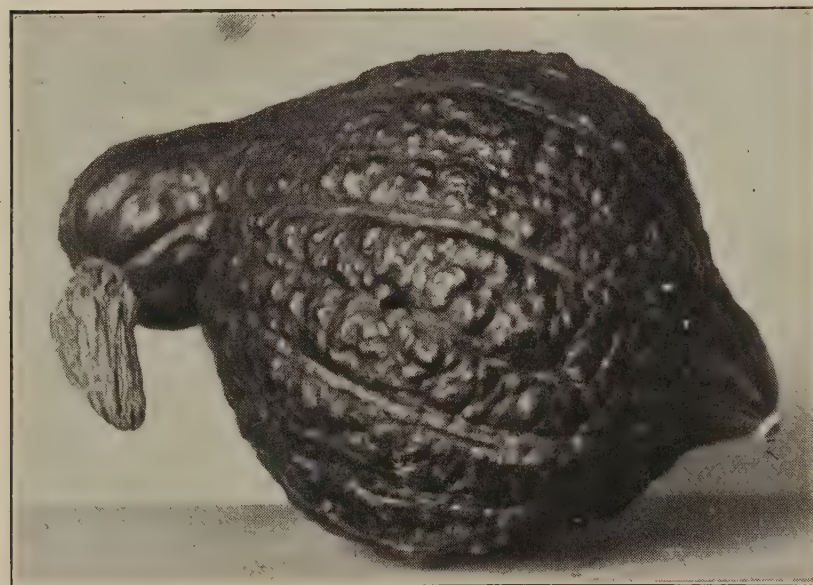
**Banana** 105 days. A prolific, oblong variety 2½ feet in length by 6 inches in diameter, having a grey-green shell. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Banana, Pink** Similar to the regular Banana, but exterior deep pink. Fruits average 15 inches long and 6½ inches in diameter, straight, pointed at the blossom end, rounded at the stem end. Flesh thick, with small seed cavity. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.



Giant  
Summer  
Crookneck

**Yankee Hybrid** 50 days. The earliest, most productive summer Squash. Fruits are straight, smooth, attractive and of excellent quality. Very similar to the Early Prolific Straightneck, but this is a true hybrid and better for home and garden use. Oz., 60c; ¼ lb., \$1.70; 1 lb., \$6.50, postpaid.



Improved Hubbard Squash

**Mammoth Table Queen** 60 days. Similar to the regular Table Queen squash, but larger in size. The quality is unsurpassed and it is a wonderful addition. Much in demand by both home and market gardeners. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Table Queen** 58 days. A Squash fit for a queen. Cut in half and baked for twenty minutes, it is delicious. Wonderful producer. Fruits are from 6 to 8 inches long and 4 to 6 inches in diameter. Shell hard and smooth, dark green with sometimes a blotch of red at pointed end. Will keep as long as the Hubbard. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.



Table Queen Squash

**Zucchini** 60 days. A well known Italian Marrow type. Fruits nearly cylindrical, straight. Color medium green, mottled with cream-gray and lighter green lace pattern and stripes; flesh firm and of delicate flavor. Suitable for quick freezing. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Delicious** 103 days. The standard of excellence in winter Squashes. Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth rind, thin but hard; flesh extremely thick, bright yellow, fine grained, dry, without fibre, of highest quality. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Golden Delicious** 103 days. Valuable for canners because of high starch content and the bright red-orange color of the exterior. In shape and season practically the same as the original Delicious. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Buttercup** 100 days. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed Squash of good storage and eating qualities. Oz., 20c; ¼ lb., 80c; 1 lb., \$2.50, postpaid.

**Butternut** 90 days. A recent introduction which has become very popular in the New England states. Fruits 10 to 12 inches long with neck of about 4 inches in diameter which is solid flesh; the seed cavity is located in the lower bowl-shaped end. Skin light creamy brown, flesh yellow, fine grained and of excellent quality. Matures early and is a good keeper. Oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.50, postpaid.

**Cocozella di Napoli** (Italian Vegetable Marrow.) 60 days. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Early White Bush Scallop** 60 days. Very early summer Squash. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Early Yellow Bush Scallop** 54 days. A true bush but larger than the above. Oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.

## The Four Hubbards

**Golden Hubbard** 100 days. Similar to the Old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange-red; flesh deep orange, fine quality; good keeper. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

★ **Improved Hubbard** 105 days. The standard winter Squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine grained, thick and dry. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

★ **Chicago Warted Hubbard** 105 days. Similar in quality and form to the Hubbard, but fruit larger and a little later. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Blue Hubbard** 105 days. A new type of Hubbard Squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.



# FORCING VARIETIES OF TOMATOES

## Grown in Greenhouses Everywhere

Actual Photo of  
Michigan  
State  
Forcing  
Tomatoes



**Ideal Forcing** Is the result of crossing the Bonny Best with the Comet and is a heavy yielding variety. It has no green unripe core, is dark red in color, not an acid fruit but of excellent quality, and is a larger Tomato than the Grand Rapids Forcing, and a splendid shipper. Oz., 60c; ¼ lb., \$2.00; ½ lb., \$3.25, postpaid.

**Michigan State Forcing** 75 days. An excellent greenhouse variety and a vigorous grower with dark green foliage. Especially attractive medium size fruits (4 to 5 ounces) are borne in clusters of five to eleven. Stem cavity is small, shallow and very smooth. Blossom end well rounded with a very small scar, the outer walls of fruit are thicker, and the firmness of the fruit makes it possible to allow them to ripen on the vine without loss to the grower. Many growers have in late years done remarkably well with this variety for outdoor growing and it is to be recommended. Oz., 60c; ¼ lb., \$2.00; ½ lb., \$3.50; 1 lb., \$7.00, postpaid.

See page 29 for Spartan Hybrid and Northern Hybrid forcing Tomatoes.

## Standard Varieties of TOMATOES

**Earliana** 64 days. The most productive, first early red Tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Victor** "All-America Selections." 65 days. Awarded Bronze Medal. This Tomato is a dwarf self-topping variety. It can be planted close, 5 feet by 3 feet. It sets fruit when other varieties fail. Is extra early, even ripening, with small vines. Color is uniform, scarlet and has a very noted smoothness of skin. A very solid Tomato that does not crack and is a good shipper. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Valiant** 67 days. An early market variety. Vines sparse and open. The fruits, weighing about 8 ounces, are smooth, deep and brilliant scarlet in color. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

**Break o' Day** 70 days. The earliest disease-resistant, scarlet-fruited, meaty Tomato yet introduced, 10 to 12 days earlier than Marglobe and very productive. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Grothen's Globe** 70 days. A much improved type over the Break o' Day, and while disease resistant the vines are heavier foliaged, growing large, upright, early, hardy and prolific. The fruit is bright red, large, globe shaped, firm, smooth and of good quality. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Early Baltimore** Certified. 70 days. Selection of Marglobe, disease resistant, adapted to all soils. Fruit somewhat smaller, bright red color, and very prolific. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$7.00, postpaid.

**Stokesdale** Certified. 70 days. A second-early scarlet fruited variety maturing about a week earlier than Marglobe. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

**Scarlet Dawn** 70 days. A leading early variety for garden, shipping and canning. Plant of medium growth, fairly open, very prolific. Fruits medium large with thick wall structure, globular, smooth, free from flat sides, bright scarlet, ripening well to the stem, exceptionally attractive. Adapted to both field and greenhouse production. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$6.50, postpaid.

**Golden Jubilee** 72 days. Short stemmed, sturdy and compact, bearing over a long period. Fruit golden yellow, globular, thick walled, of mild flavor and good quality. Medium size. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Bonny Best** Certified. 73 days. Unexcelled as a general purpose Tomato; particularly valuable for forcing under glass as a canning variety in northern sections. Fruits evenly colored bright deep scarlet-red; medium large; flattened globe-shaped; smooth and firm. Oz., 50c; ¼ lb., \$1.60; 1 lb., \$5.50, postpaid.

**Chalk's Early Jewel** 75 days. An exceptionally fine early variety. About ten days later than the Earliana. Fruit round, smooth and solid. Color crimson. Extremely productive. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Comet** 75 days. An excellent climbing variety for greenhouse as well as outdoor growing. Smooth, dark red in color, ripens well throughout. Fruit grows to a good size in heavy clusters and not very acid in quality. A splendid shipper. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$6.50, postpaid.

★ **John Baer** Certified. 73 days. An early, productive, red Tomato, on the order of the Chalk's Jewel. Splendid producer. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$7.00, postpaid.

★ This variety recommended by the Michigan State College.



**Wisconsin No. 55**

(75 days from transplanting to first picking.) Plant vigorous, quite open, yet sufficiently dense to prevent much sun scalding, with considerable tolerance to blossom end rot, and some tolerance to early blight. Fruit set moderately heavy. Fruit scarlet, slightly oblong, larger in size and weight than Stokesdale or John Baer and less liable to cracking. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

**Marglobe** Certified.

**The Wilt and Nailhead Rust-Resistant Sort.** 75 days. Was produced by crossing Livingston's Globe with one or more other varieties. It is a vigorous grower whether in greenhouse or field. A bright red in color, of large size, almost round, and very productive. It is very promising. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$7.00, postpaid.

**Pritchard or Scarlet Topper** Certified. 75 days. Very productive early sort.

The splendid, globe-shaped, smooth fruits grow to a good size and attain an attractive bright red color. Flesh firm, mild flavored, free from acidity, with no core and small seed cavity. Plants grow compact and robust and produce a heavy crop when planted in good rich soil. Oz., 50c; ¼ lb., \$1.60; 1 lb., \$5.50, postpaid.

**CERTIFIED John Baer Tomato**

**Early Detroit or Gulf State Market** 77 days. Particularly valuable for shipping. Fruits purplish pink, large and of uniform size. Globe-shaped, smooth and firm. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

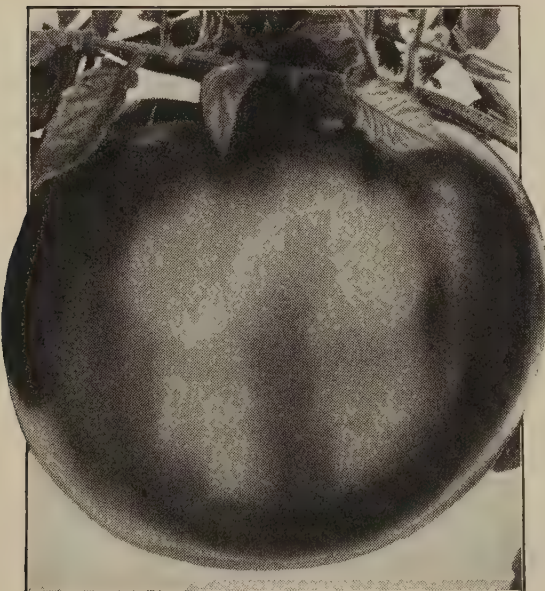
**Rutgers** (Certified.) 80 days. This is an early strain and has a thick outer and inner wall of solid meat. Globe shaped, scarlet-red in color, resembling Marglobe. The Rutgers Tomato is in great demand for all purposes. Oz., 50c; ¼ lb., \$1.60; 1 lb., \$5.50, postpaid.

**Dwarf Stone** 81 days. The best of the dwarf Tomatoes. Fruits large, smooth, very solid, of a deep scarlet color. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

**Greater Baltimore** Certified. 83 days. Second early and main crop variety. Deep scarlet-red in color, vigorous and very productive. Preferred by canners on account of its heavy yield. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$7.00, postpaid.

**Garden State** Certified. 84 days. Developed from crosses involving Pritchard, Marvel and Pink Topper. Plant vigorous, partially resistant to fusarium wilt, and late blight; fruits slightly flattened globe shaped, attractive in color and size. Thick walled and mild flavored. Oz., 80c; ¼ lb., \$2.40 1 lb., \$8.00, postpaid.

**New Stone** 85 days. The standard and general favorite with truckers and canners. Always dependable, very vigorous and productive; fruits round, large, solid, smooth, and deep red in color. Oz., 60c; ¼ lb., \$2.00; 1 lb., \$6.50, postpaid.

**CERTIFIED Marglobe Tomato**





Oxheart Tomato

**Ponderosa** 85 days. A very large, purple-fruited Tomato; solid, with but few seeds, and not acid. Fine for slicing. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

**Beefsteak** (Red Ponderosa.) 90 days. A wilt-resistant, large variety for home and market garden use. Plant is open in habit of growth, heavy. The fruit is large, flat, scarlet, rather smooth. Oz., 80c; ¼ lb., \$2.40; 1 lb., \$8.00, postpaid.

**Oxheart** 90 days. An attractive pink-skinned variety. It is exceedingly smooth and tender and almost seedless. It has that delicious mild flavor. Rich soil adds greatly to its productiveness. A late variety. Oz., \$1.35; ¼ lb., \$4.00; 1 lb., \$15.00, postpaid.

**Small Fruited Tomatoes** Used for pickles, preserves, canning, etc. Easily grown and yield well. **Yellow Plum, Red Pear, Yellow Pear and Red Peach.** Price of any of the four varieties: ¼ oz., 30c; oz., \$1.00, postpaid. Special: One packet of each of these four varieties for 50c, postpaid.



CERTIFIED Greater Baltimore Tomato

## Hybrid Tomatoes For Forcing

**"Just a Little More of Everything"**

Two important Hybrid Tomatoes, bred and grown by Mr. Roy H. Burghart, and introduced to the trade as a better and more vigorous Tomato that is more resistant to wilt and disease. They are ideal greenhouse forcing hybrids, and have "just a little more of everything" that is desirable in a Tomato. With increased production at a lower cost, we are able to offer these at lower prices, enabling greater distribution and a better crop at lower cost.

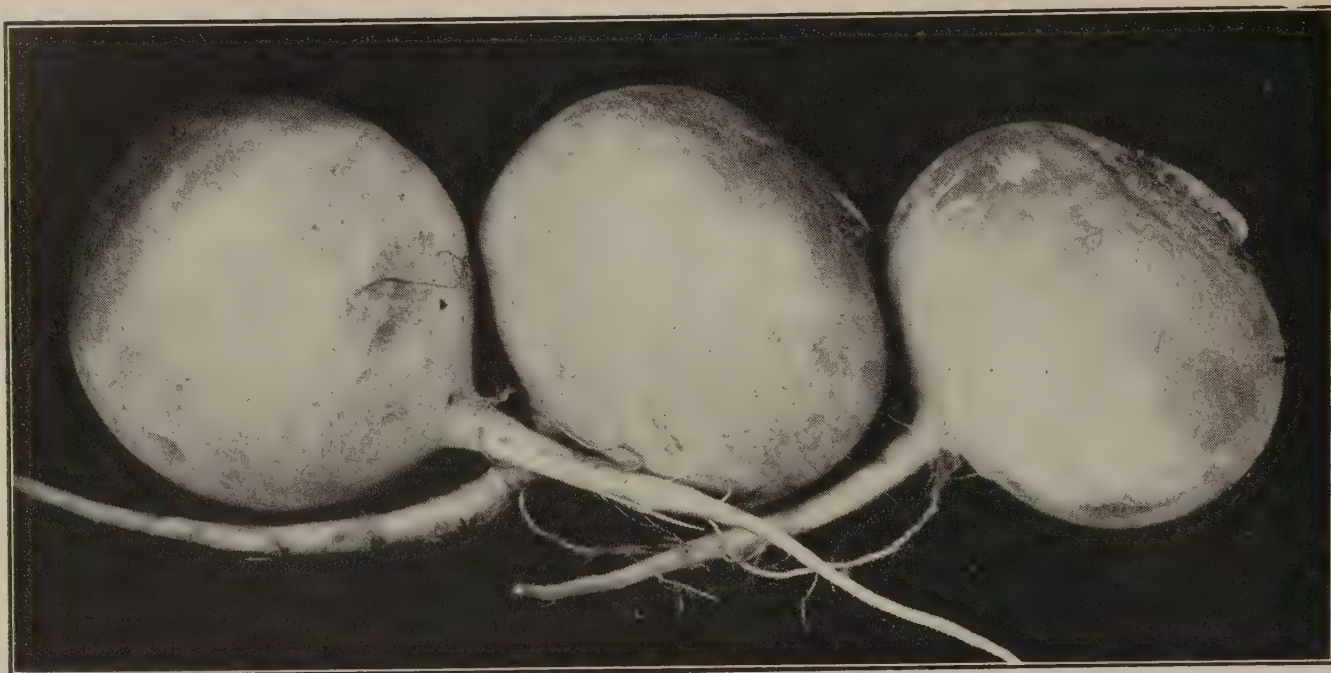
**Spartan Hybrid** This is a cross between Michigan State Forcing and Cooper's Special, and is an excellent greenhouse hybrid, a week earlier than the parents and about 20 per cent more productive in weight and fruit. Color red, globular shape, medium size fruit, 5 to 6 ounces in weight, about three to the pound; growing in clusters of six to eight. A meaty Tomato, small seed cavity. Vine is more open, giving very uniform ripening of fruit. Being extra vigorous in growth, it is more resistant to both wilt and disease.

**Northern Hybrid** This is a cross between Michigan State Forcing and Sutton's Best of All, and is an ideal greenhouse hybrid for northern growing, especially in CANADA and northern United States. In productivity it is similar to Spartan Hybrid, but is more vigorous in growing, particularly in dark fall and winter weather which is prevalent in the North. Vine is open, permitting uniform ripening. Fruit is red in color, globular in shape, but is smaller, 4 to 5 ounces of solid fruit in clusters of ten to twelve. More resistant to wilt and disease on account of its vigorous growth.

Both of these hybrids are put up in sealed packets. 50 seeds, \$1.25; 100 seeds, \$2.00; 250 seeds, \$3.50; 500 seeds, \$6.00; 1000 seeds, \$10.00; ¼ oz., \$18.00; ½ oz., \$35.00, postpaid.

All prices quoted herein are subject to change without notice.





Purple Top White Globe Turnip

## Turnips

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.

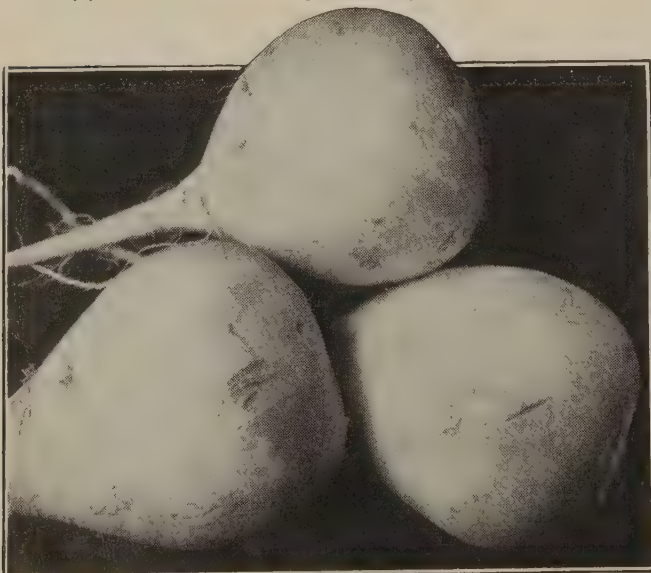
★ **Purple Top White Globe** 55 days. Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive Turnip and best seller. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Extra Early White Milan** 40 days. The earliest bulbs, small, clear white, and flat. One of the best for early bunching. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

**Purple Top Strap Leaved** 45 days. A very early, flat variety, medium size; purple or red above ground and white below. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

**Golden Ball** 65 days. Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

★ Recommended by Michigan State College



White Egg Turnip

**White Egg** 55 days. An early egg-shaped variety. Roots smooth, clear white. One of the best for market. Oz., 20c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.



Yellow Globe Turnip

**Yellow Globe** 75 days. A round, smooth, light yellow variety of medium size and good quality. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

**Cow Horn** 65 days. Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Yellow Aberdeen** 75 days. A late, medium sized, long keeping variety, roots round, yellow with a purple top, flesh tender. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

**Seven Top** 45 days. For turnip greens. Extremely hardy foliage turnip for table or forage use. Crown sends up numerous shoots which are excellent for greens. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

### SEED TREATMENT PAYS

Treat your seeds with Semesan disinfectants and assure yourself of a crop.

Seed treatment pays no matter what kind of seed is treated. We handle a complete line.

All prices quoted herein are subject to change without notice.



# ANNUAL FLOWERS

*That Should Be In Everyone's Garden*



## COSMOS

Plants of graceful beauty, fine feathery foliage and large flowers. While the early varieties begin blooming in July, the Cosmos reaches the height of its beauty in autumn.

**EARLY FLOWERING MAMMOTH MIXED.** 4 ozs., \$2.00; oz., 60c; pkt., 10c.

**GIANT MIXED.** 4 ozs., \$1.35; oz., 40c; pkt., 10c.

**KLONDIKE, ORANGE FLARE.** Oz., 75c; 1/4 oz., 25c; pkt., 10c. See complete listing on page 38.



## ALYSSUM

**ALYSSUM.** Sweet Alyssum. Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

**LITTLE GEM.** Erect. White. 4 ozs., \$3.50; oz., \$1.00; 1/4 oz., 30c; pkt., 10c.

**VIOLET QUEEN.** Pictured above. oz., \$1.25 1/4 oz., 40c; pkt., 10c.

**CARPET OF SNOW.** Pkts. only, 10c. See page 35.



## BACHELOR'S BUTTON

A very popular annual that will always charm by its simple beauty. See page 36.

**CYANUS MIXED.** 4 oz., \$1.75; oz., 65c; 1/4 oz., 20c; pkt., 10c, postpaid.

**JUBILEE GEM.** Pkts. only, 10c.

**RED BOY.** Pkts. only, 10c.

## CARNATIONS

Always in demand and not hard to grow, being hardy and free flowering. It is one of most valuable of summer flowers.

**MARGUERITE, DOUBLE MIXED.** 4 ozs., \$8.00; oz., \$2.25; 1/4 oz., 65c; pkt., 10c, postpaid. See page 37.

**Chabaud Giant Mixed.** 4 ozs., \$12.50; 1 oz., \$3.50; 1/4 oz. 90c; pkt., 10c.





GARDEN BEAUTIES

ANYONE CAN GROW

# PORTULACA

(Rose Moss)  
As pictured to the right, this is one of the most beautiful scenes in any garden. It will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and very soon the loveliest of floral carpets will appear.

Double Best Mixed. oz., \$2.75; 1/4 oz., 80c; pkt., 10c.

Single Mixed. oz., \$1.75; 1/4 oz., 50c; pkt., 10c. See page 44 in the regular listing.

# MORNING GLORY

(Ipomoea)  
Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

HEAVENLY BLUE. The color is a deep sky-blue shading lighter toward the center; the flowers are large and freely produced and the plants flower early and continue throughout the summer. Flowers will remain open to 6 o'clock in the evening on cloudy days. Oz., 60c; pkt., 10c.

See page 41 for all other Morning Glories.



Asters

# WILT-RESISTANT ASTERS

GIANT CREGO. The flowers are of immense size, usually measuring from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. Mixed, all colors; 4 ozs., \$5.50; oz., \$1.60; 1/4 oz., 50c; pkt., 10c, postpaid.  
All other Asters are listed on page 36 in our catalog.

# POPPIES

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

SHIRLEY, SINGLE. Lovely and dainty shades, many edged and shaded with other colors. See page 44. Oz., 60c; 1/4 oz., 20c; pkt., 10c, postpaid

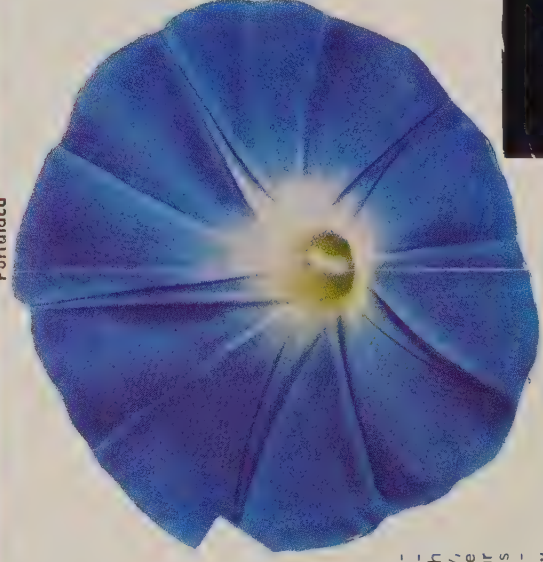


Poppies



Portulaca

# Is a Joy Forever



Morning Glory HEAVENLY BLUE

# SPRY MARIGOLD

This is a miniature version of Harmony. Growing in compact, 9 inch bushes, producing freely, flowers less than half the size of the popular variety "Harmony". It is uniform and fine for ribbon planting. 4 ozs., \$5.50; oz., \$1.60; 1/4 oz., 50c.; pkt., 10c.

Other Marigolds are listed on page 41.



Spry Marigold

# PETUNIAS

In dry seasons or wet, the Petunia is the most adaptable, long flowering and colorful of the garden annuals. Petunias love a rich soil, and thrive best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.

# DWARF CALIFORNIA

GIANTS, Mixed. Extra choice blend. The habit of the plant is very dwarf, flowers very large and of the finest substance. All with open-veined throats of the Superbissima type. 1/4 oz., \$15.00; 1/8 oz., \$8.00; 1/16 oz., \$4.50; pkt., 50c, postpaid.

# GIANTS OF CALIFORNIA

Mixed. A well-balanced mixture containing a remarkably fine variety of colors, in blends of crimson, white, violet, lavender and pink. Large flowers freely produced. 1/4 oz., \$12.50; 1/8 oz., \$7.00; 1/16 oz., \$4.00; pkt., 25c, postpaid. Refer to page 42.



Petunia

# SCABIOSA

(Mourning Bride)

GRANDIFLORA MIXED. Our latest special mixture and we are sure the delicate, soft colors will be admired by all our friends. See page 45. 4 ozs., \$3.50; oz., \$1.00; 1/4 oz., 35c; pkt., 10c, postpaid.



Scabiosa

# NASTURTIUMS

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is moderately good soil, in a well drained, sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blooms. See page 42.

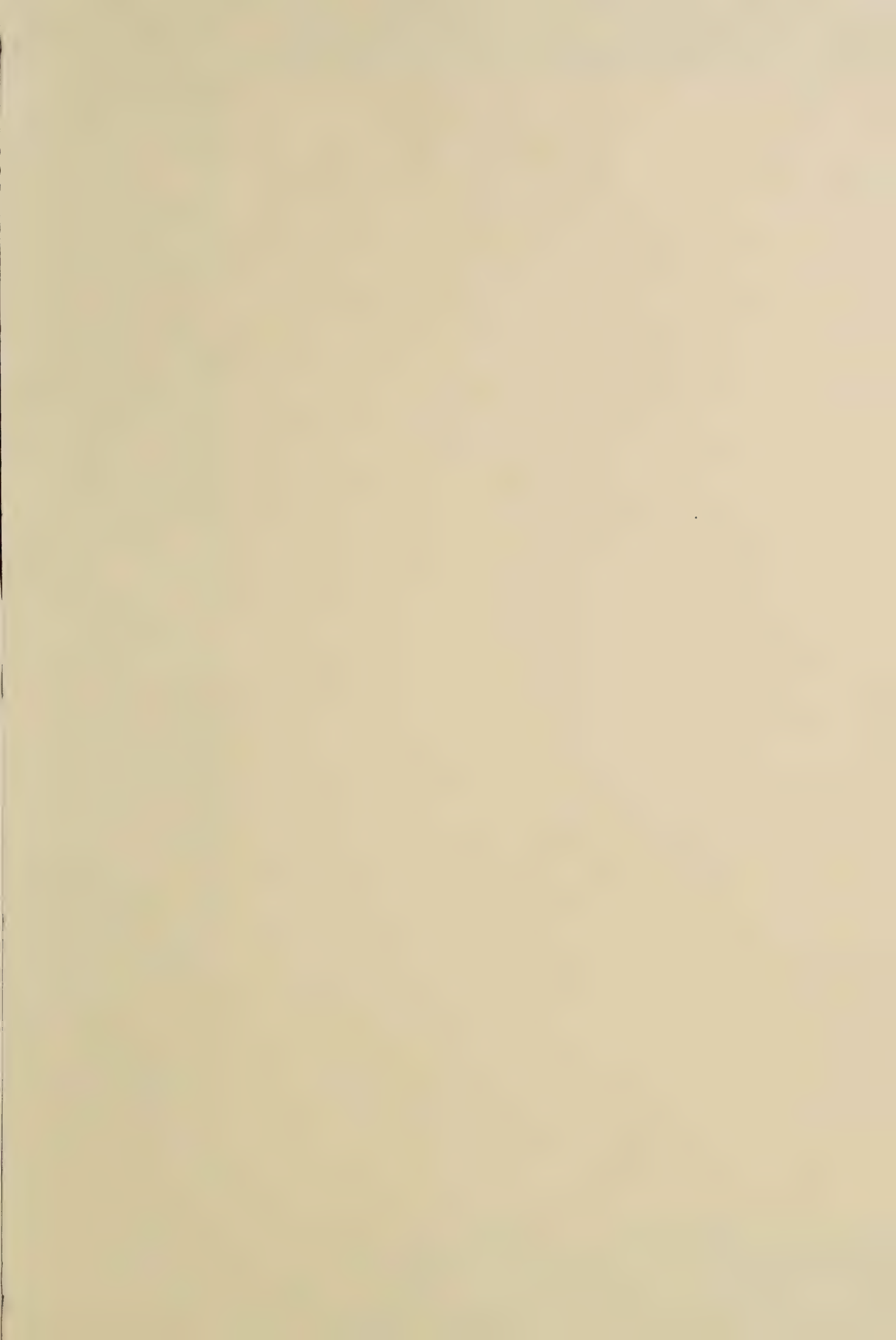
Dwarf Mixed: 4 ozs., 85c; oz., 25c; pkt., 10c, postpaid.

Tall Mixed: 4 ozs., 85c; oz., 25c; pkt., 10c, postpaid.



Tropaeolum—Nasturtiums









# ANNUAL FLOWERS That Should be in Everyone's Garden

## ZINNIAS

**GIANT DAHLIA FLOWERED.** In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias. **Mixed colors:** 1 lb., \$11.00; 4 ozs., \$3.25; oz., 90c; pkt., 10c, postpaid.

Many other Zinnias are listed on page 47.

## PANSIES

They like a cool, moist soil and protection from winds as well as the noonday sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the spring, the seed should be sown in August or September and the plants protected with a cold frame during the winter. May also be sown out-of-doors in the spring for late summer and fall flowers.

**GIANT MIXTURE, DONOVAN STRAIN.** Flowers very large, and great diversity of colors. This mixture contains all the good ones See page 44. 4 ozs., \$28.00; oz., \$9.00; 1/4 oz., \$2.50; pkt., 10c, postpaid.

Other Pansies are listed on page 44.



## RUST-PROOF SNAPDRAGON

(ANTIRRHINUM)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced in immense, long spikes, which render them well adapted for cut flowers. See page 45.

**DWARF MIXED.** 4 ozs., \$10.00; oz., \$2.80; 1/4 oz., 80c; pkt., 10c, postpaid.

**TALL MIXED.** 4 ozs., \$9.00; oz., \$2.50; 1/4 oz., 75c; pkt., 10c, postpaid.



## VERBENA

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when the seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

**MAMMOTH MIXED.** Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. 4 ozs., \$6.50; oz., \$1.90; 1/4 oz., 60c; pkt., 10c, postpaid. See page 47.





# FLOWER SEED DEPARTMENT

We are convinced that many of the failures with flower seeds are due to lack of proper conditions, and while it would be impossible in the space at our disposal in this catalog to give explicit directions for each and every variety which we offer, we feel sure that if the general directions given below are followed, success will be the rule.

All of our flower seeds are listed by their common name in strict alphabetical order, together with the botanical name for your guidance.

## Success With Flower Seeds

For all flower seeds which should be started indoors, the best plan is to sow in earthenware seed pans or boxes (about 2 inches deep) which should be filled to the depth of an inch with any rough material that will furnish perfect drainage. The upper inch should be nicely sifted soil, composed, if possible, of about one-third each of sand, leaf mould and light garden loam. Press firmly and evenly and water thoroughly the day before sowing. Sow the seeds thinly over the surface, cover about one-eighth of an inch and press firmly. When the seedlings are large enough to handle, they should be transplanted into similarly prepared boxes an inch apart each way, or put into small pots and kept in same until time to plant out in the open ground. At all times they should have an abundance of air, otherwise the young seedlings are liable to "damp off."

For most of the ordinary annual flowers, the simplest method is to sow directly out-of-doors when danger of frost is past in the space where they are intended to flower. The ground should be dug and raked fine on the surface, sowing the seeds evenly and thinly, covering not over four times their size, and firming the soil over them. Should they come up too thickly, as most of them are likely to do, thin out so that the plants will stand from 4 to 12 inches apart, according to the variety.

## How to Sow Flower Seeds

It will prove quite an advantage to mix all small seeds with sand or dry soil and scatter broadcast. This separates the seeds and is quite an advantage in thinning out or transplanting the young plants as those that remain are undisturbed. A common mistake in sowing flower seeds is covering too deeply. The exception to this is the Sweet Pea, which is seldom planted deep enough. As a general rule, cover small seeds only to the depth of the thickness of the seeds; always press the earth after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seed of the hardier annuals may be sown where they are to grow; but as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

**Annuals** are those flowers which bloom and die the same year; grown from seed exclusively.

**Biennials** bloom and die the second year from the seeding time.

**Perennials** grow the plant the first year but do not flower until the second year and then bloom every year.

## SPECIAL NOTICE!

Where many of the flower seeds and herbs are an imported item, it is extremely difficult to say whether or not there will be any available for planting this year; however, we would appreciate your inquiry and will quote prices on request, if available later in the season.



Sweet Alyssum

ABRONIA (Sand Verbena). Pkt., 10c.

## Alyssum (A)

(SWEET ALYSSUM)

Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

**Little Gem.** Erect; white. 4 ozs., \$3.50; 1 oz., \$1.00; ¼ oz., 30c; pkt., 10c.

**Violet Queen.** Oz., \$1.25; ¼ oz., 40c; pkt., 10c.

**Carpet of Snow.** Pkt., 10c.

## Alyssum (P)

**Saxatile compactum** (Basket of Gold). 9 inches high. Blooms in May and June, producing masses of golden flowers very early. 1 oz., \$1.00; ¼ oz., 30c; pkt., 10c.

## Ageratum (A)

(FLOSSFLOWER)

One of the best summer blooming plants. They are rapid growers; early and constant bloomers.

**Mexicanum Tall.** 18 inches. Beautiful, soft lavender-blue, of free branching habit. ¼ oz., 40c; pkt., 10c.

**Blue Cap.** Selected. 6 inches. Definitely more dwarf, more compact in habit with small leaves. Bright, deep, rich lavender-blue. 1 oz., \$4.00; ¼ oz., \$1.25; pkt., 10c.

**Blue Perfection.** Pkt., 10c.

**Midget Blue.** Dwarf, compact, rich blue. 1 oz., \$5.00; ¼ oz., \$1.50; pkt., 10c.



Ageratum



ARCTOTIS, Grandis. Pkt., 10c.  
 ANCHUSA ITALICA, Dropmore. Pkt., 10c.  
 ARABIS, Alpina. Pkt., 10c.  
 ARMERIA, Maritima. Pkt., 10c.

### Wilt-Resistant Asters (A)

**Giant Crego.** The flowers are of immense size, usually measuring from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. Mixed, all colors. 4 ozs., \$5.50; 1 oz., \$1.60; ¼ oz., 50c; pkt., 10c.

**Queen of the Market.** The best early Aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit. Mixed, all colors. 4 ozs., \$5.50; 1 oz., \$1.60; ¼ oz., 50c; pkt., 10c.

**American Beauty.** Late flowering. Mixed colors. 4 ozs., \$6.50; 1 oz., \$1.85; ¼ oz., 60c; pkt., 10c.

**Heart of France.** A dark ruby-red variety; large double flowers, a beautiful type. The most outstanding Aster grown. 4 ozs., \$6.50; 1 oz., \$1.85; ¼ oz., 60c; pkt., 10c.

**Giant California Sunshine.** The flowers are large, with loosely placed outer petals contrasting with the creamy yellow or blue centers, giving a lazy effect which is quite delightful. The rogues and off types bloom first and the Giant Sunshine later. Mixed colors; ¼ oz., 95c; pkt., 10c.

**Giant Branching.** Mixed colors. 4 ozs., \$5.50; 1 oz., \$1.60; ¼ oz., 50c; pkt., 10c.

**Double American Branching.** Mixed. Pkt., 10c.

**ACROCLINIUM, Double Mixed.** Pkt., 10c.



Calendula

### Baby's Breath (A) (GYPSOPHILA)

Graceful plants of fairy-like growth. Large flowering, pure white, of free, easy growth. Much in demand for cutting and combining with other flowers for bouquets and vases. Several sowings should be made during the season to keep up the supply. 4 ozs., \$1.00; 1 oz., 35c; pkt., 10c.

**GYPSOPHILA (P) Paniculata.** Double white. ¼ oz., \$1.00; pkt., 10c.

### Bachelor's Button

A very popular annual that will always charm by its simple beauty.

**Cyanus Mixed.** 4 ozs., \$1.75; 1 oz., 65c; ¼ oz., 20c; pkt., 10c.

**Jubilee Gem.** Pkt., 10c.

**Red Boy.** Pkt., 10c.



Giant California Sunshine Aster

### Balsam (A)

(LADY SLIPPER)

**Double Camellia-Flowered Mixed.** An old and favorite garden flower, producing its gorgeous masses of beautiful, colored, double flowers in the greatest profusion. 1½ to 2 feet. 4 ozs., \$3.50; 1 oz., \$1.00; ¼ oz., 30c; pkt., 10c.

**Bush Mixed.** 4 ozs., \$8.50; 1 oz., \$2.50; ¼ oz., 80c; pkt., 10c.

**BLUE LACE FLOWER.** Coeruleus. Blue. Pkt., 10c.

### Calendula (A)

(POT MARIGOLD)

**Orange King.** The outer petals are slightly imbricated, while those in the center are curved like those of the Peony. Color glowing orange. 4 ozs., \$2.40; 1 oz., 75c; ¼ oz., 25c; pkt., 10c.

**The Ball.** It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite on the Chicago cut flower market. 4 ozs., \$3.75; 1 oz., \$1.00; ¼ oz., 35c; pkt., 10c.

**Sunshine.** Pkt., 10c.

### California Poppy (A)

(ESCHSCHOLTZIA)

Especially valuable for growing in flower beds and masses. Sow where plants are to bloom. Bright showy flowers and feathered foliage. Good for cut flowers. **California Mixed.** Large flowers. Oz., 50c; pkt., 10c. **California Golden.** Oz., 50c; pkt., 10c.



California Poppies





Canterbury Bells

### Canterbury Bells (B) (CAMPANULA)

This old-fashioned flower is a favorite with all, stately and showy and of the easiest growth. For best results seed should be sown every year.

Double Mixed. Oz., \$1.60; ¼ oz., 50c; pkt., 10c.

Calycanthema (Cup and Saucer). 2 ft. June to August. Mixed colors. Oz., \$1.60; ¼ oz., 50c; pkt., 10c.



Chinese Woolflower

### Calliopsis (A) (TICKSEED)

Very graceful border plants, supplying throughout Summer an abundance of elegant, showy flowers which are greatly prized for bouquets and vases. Will thrive anywhere. 6 in. to 2 ft. Double mixed, all colors. 4 ozs., \$1.60; 1 oz., 50c; pkt., 10c.

### Candytuft (A)

This is one of the most prized garden annuals. Easily grown from seed and does not need transplanting. Fine for cut flowers. Mixed. 4 ozs., \$1.90; 1 oz., 60c; ¼ oz., 20c; pkt., 10c.

Giant Hyacinth Flowered. White. Pkt., 10c.

CARDINAL CLIMBER (A). Pkt., 10c.

### Carnations (A)

Always in demand and not hard to grow, being hardy and free flowering. It is one of the most valuable of summer flowers.

Marguerite. Double Mixed. 4 ozs., \$8.00; oz., \$2.25; ¼ oz., 65c; pkt., 10c.

Chabaud Giant Mixed. 4 ozs., \$12.50; 1 oz., \$3.50; ¼ oz., 90c; pkt., 10c.



Centaurea

### Castor Bean (RICINUS) (A)

Decorative plant with fern-like foliage, giving to the garden a magnificent sub-tropical effect; even a single plant forms a pyramid of leaves.

Zanzibariensis. Leaves vary in color from light green to purplish red. ¼ lb., 75c; oz., 25c; pkt., 10c.

### Celosia (A) (COXCOMB)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

Tall Cockscomb, Mixed. 18 to 24 inches. Oz., \$2.25; ¼ oz., 60c; pkt., 10c.

Chinese Woolflower (Celosia Childsi). Plants grow 2 to 3 ft. high, the bloom starting early with a central head, round and globular, which often reaches the immense size of 2 ft. in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. Pkt., 10c.

Plumosa, Dwarf Fiery Feathered. Pkt., 10c.

Feathered, Mixed. Pkt., 10c.



CHINESE FORGET-ME-NOT. Firmament. Pkt., 10c.

CLARKIA, Double Mixed. Pkt., 10c.

CLEOME, Giant Rosé Shades. Pkt., 10c.

### **Coleus (A)** (FOLIAGE PLANTS)

Bedding plants, growing about 1 foot high. Their foliage is highly ornamental. Easy to raise from seed. Sow seed indoors. Extra large. Choice Mixed. 1/16 oz., \$4.25; 1/8 oz., \$8.25; pkt., 25c.

### **Columbine (P)** (AQUILEGIA)

This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June. Mrs. Scott Elliott's Strain, 1/4 oz., \$1.50; pkt., 10c.



Columbine—Aquilegia

### **Cosmos (A)**

**Klondyke, Orange Flare.** Orange Flare will flower in the North in less than four months from seed and continue to grow and bloom with increasing freedom until killed by frost. As it is a tropical plant it should not be sown out-of-doors until the ground is warm. Give it a full sun in the garden. Cut flowers should be taken when newly opened with low centers when they will keep several days in water. 1/4 oz., 25c; 1 oz., 75c; pkt., 10c.

**Early Flowering Mammoth, Mixed.** 4 ozs., \$2.00; oz., 60c; pkt., 10c.

**Giant Mixed.** 4 ozs., \$1.35; oz., 40c; pkt., 10c.

**Sensation, Mixed.** Pkt., 10c.

**Early Double Crested, Mixed.** Pkt., 25c.



Coreopsis

### **Coreopsis (P)**

This is one of the finest of hardy plants, with large, showy, bright yellow flowers produced in the greatest abundance from June until frost. As cut flowers they stand near the head among hardy plants. Oz., 60c; 1/4 oz., 20c; pkt., 10c.

### **Cypress Vine (A)**

For trailing upon a light ornamental trellis the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and finely cut foliage. Mixed. Pkt., 10c.



Cosmos, Klondyke Orange Flare



DAHLIA, Unwin's Dwarf Hybrids. Pkt., 10c.

**Double Daisy (P)**  
(BELLIS PERENNIS)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture. Oz., \$14.00; ¼ oz., \$3.60; ⅛ oz., \$1.90; pkt., 10c.

**Delphinium (P)**  
(PERENNIAL LARKSPUR)

**Pacific Giants, Mixed.** This new strain produces plants that are 60-65 per cent mildew-resistant. The flowers are immense size, tightly set on straight stems. The flowers do not shatter and are fine for cut flowers. Pkt., 10c.

**Pacific Giants, McLaughlin's Strain.** Pkt., 25c.

**Forget-Me-Not (B)**  
(MYOSOTIS)

They are considered among the best spring flowers. They prefer moist, cool soil, and will bloom freely in fall and early spring.

**Victoria.** Sky-blue. 1 oz., \$3.60; ¼ oz., \$1.10; pkt., 10c.

**Four O'clock (A)**  
(MIRABILIS)

**Marvel of Peru.** Mixed colors. ¼ lb., \$1.25; oz., 40c; pkt., 10c.

**GLADIOLUS**

Our "Grand River Collection" Of Gladiolus is fully listed on the outside back cover. For all the others turn this page over.

"A thing of beauty is a joy forever."



Gaillardia



Delphinium—Larkspur

**Foxglove (B)**  
(DIGITALIS)

Bearing long spikes of beautifully colored flowers; fine for planting in hardy borders or among shrubbery. Mixed. Oz., \$1.50; ¼ oz., 50c; pkt., 10c.

**Gaillardia (A)**  
(BLANKET FLOWER)

**Picta Lorenziana.** Double flowers, mixed colors. ¼ oz., 50c; pkt., 10c.

**Gaillardia (P)**

Bloom from June to October. Their long flowering period, long stems and bright colors make these one of the most valuable perennials, being easily grown in beds and borders.

**Grandiflora.** Mixed, single. ¼ oz., 50c; pkt., 10c.

**GEUM, Double Scarlet.** Pkt., 10c.

**GOURDS, Small Fruited Mixed.** Oz., 30c; pkt., 10c.



Forget-Me-Not



# GLADIOLUS

OUTSTANDING VARIETIES IN THREE DISTINCT CLASSES

All large size bulbs, treated, and free from disease,

**60c per doz.; \$4.25 per 100.**

**BAGDAD.** Exhibition. Large flowers and tall. A smoky old rose.

**BIT O' HEAVEN.** Exhibition. Flaming orange with yellow throat.

**GOLDEN DREAM.** Decorative. Clear deep yellow.

**LINDBERGH.** Large, tall lavender with cream throat.

**MAID OF ORLEANS.** Exhibition. Milky white with cream throat.

**MOROCCO.** Decorative. Very deep dark red, almost a maroon.

**PELEGRINA.** Decorative. Deep blue.

**PICARDY.** Exhibition. Delicate apricot-pink. Flowers are all extremely large and of heavy waxlike substance.

**QUEEN OF BREMEN.** Decorative. Soft lavender-pink. Makes beautiful floral arrangements.

**RED PHIPPS.** Exhibition. A gay flaming scarlet.

**ROSE SPLENDOR.** Decorative. Large, deep rose.

**WHITE BUTTERFLY.** As the name implies, this is a dainty white, beautiful for arrangements.

**75c per doz.; \$5.75 per 100.**

**BARCAROLE.** Decorative. Midseason. Large clear orange of unusual but most exquisite clean shade. Six to seven heavily ruffled blooms open. A gorgeous variety that must be seen to be appreciated.

**BEACON.** Exhibition. Bright rose-scarlet with a large cream throat. Somewhat ruffled, tall and very showy.

**CORONA.** Decorative. Cream-white shading more creamy toward the throat, with wide rose picotee edge on all petals. Very distinctive and beautiful. Six to eight very large wide-open blooms on a head of 18 buds. Tall, strong grower and a fine propagator.

**HINDENBURG'S MEMORY.** Large, clear dark red.

**IRAK.** Decorative. Clear gray sport of Bagdad. Very beautiful used with yellow or other contrasting shades.

**JEANIE.** Decorative. Beautiful distinctive large clear pink with white midribs and creamy throat. Tall, strong grower.

**KING LEAR.** Exhibition. Very early. Clear deep purple with silver line on edge of all petals. Very large, heavily waved and ruffled, 5 to 6 open.

**MARGARET BEATON.** Exhibition. Pure snow-white with small scarlet blotch in the throat. Flowers very large, on a long spike.

**MISS BLOOMINGTON.** Decorative. Tall, light yellow flowers, well placed.

**ROSA VAN LIMA.** Exhibition. Beautiful light rose with darker lines in throat. Opens up to eight or more well-placed blooms on tall, straight spike.

**SHIRLEY TEMPLE.** Exhibition. Rich cream, almost white, with richer cream throat mark. Six to eight very large most beautiful flowers open at a time. As a cut flower it stands up with the best of them.

**SNOW PRINCESS.** Exhibition. A very fine white of good size and form. Tall, with long flower spike and many open blooms that are always perfectly placed. Stems never crook. Midseason.

**SURFSIDE.** Decorative. Nicely ruffled white blooms with a fine lavender line in the throat. Tall, straight spike.

**VAGABOND PRINCE.** Iridescent garnet-brown with a scarlet blotch. Most unusual, and is lovely arranged with scarlets.

**\$1.00 per doz.; \$7.95 per 100.**

**ALGONQUIN.** Decorative. Early, brilliant glowing scarlet, 8 to 10 wide open ruffled, needlepoint blooms open on a tall, straight spike. Many people know this one as the best scarlet on the market.

**AVALON.** Exhibition. Beautiful bright rosy pink, shading to a cream throat. Eight to ten heavily ruffled blooms open.

**BADGER BEAUTY.** Decorative. Beautiful lavender of average height with a creamy white throat. Does not fleck or grow crooked.

**CASABLANCA.** Exhibition. Heavily ruffled creamy white. Tall and beautiful.

**HIGH FINANCE.** Exhibition. Light smoky orange-gray with cream throat. A beautifully distinctive shade, and opens up to 9 lightly ruffled blooms with rolled back petals.

**KING BEE.** Exhibition. Beautiful salmon-scarlet with self flecks. Commands attention.

**PURPLE SUPREME.** Exhibition. Tall slender plant with well-placed bright purple blossoms open at a time.

**RECADO.** Exhibition. Rosy ash flecked and splashed with orange-scarlet, with a diffused darker blotch. The colors of a beautiful sunset.

**RED CHARM.** Exhibition. Very attractive shade of medium red. Fast becoming the most popular all-purpose red.

**SENSATION.** Exhibition. Bright but soft rose-salmon. Six to nine heavily ruffled huge blooms on a long flower head.

**SILENTIUM.** Decorative. Pure white with rose blotch, plant grows tall and always straight with a slender willowy stem.

**WHITE GOLD.** Decorative. Very large clear light cream, shading to a lighter throat. Four to six huge blooms open on a long flower head.

All bulbs listed are subject to the 3% Michigan State Sales Tax.

Postage extra—see rates page three.



A Field of Blooming Gladiolus is a Sight You Never Will Forget



**HELIOTROPE.** Dark varieties mixed. Pkt., 10c.  
**HESPERIS.** Purple or white. Pkt., 10c.  
**HIBISCUS.** Pkt., 10c.

### Hollyhocks (P)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 ft.

**Double Mixed.** Double and semi-double.  $\frac{1}{4}$  oz., 65c; pkt., 10c.

**HOLLYHOCK, Indian Spring.** Pkt., 10c.

**HUNNEMANNIA.** Pkt., 10c.

**ICELAND POPPY, Sunbeam Mixed.** Pkt., 10c.

**KOCHIA Childsi.** Pkt., 10c.

**LANTANA.** Pkt., 10c.

### Larkspur (A)

The graceful spikes of blooms are much valued for vases. They continue long in bloom.

**Double Mixed.** All colors. 4 ozs., \$3.60; oz., \$1.10;  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**Giant Hyacinth-Flowered.** Mixed. 3 feet. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate colors. 4 ozs., \$6.00; 1 oz., \$1.80;  $\frac{1}{4}$  oz., 60c; pkt., 10c.

**Rosamond.** Deep pink. Pkt., 10c.

**Super Majestic.** Pkt., 10c.

**Salmon Rose.** Pkt., 10c.

**Blue Spire.** Pkt., 10c.

**White King.** Pkt., 10c.

**Majestic Rose.** Pink. Pkt., 10c.

FOR PERENNIAL VARIETIES, see DELPHINIUM

**LAVENDER.** Pkt., 10c.

**LOBELIA, Crystal Palace.** Pkt., 10c.

**LUNARIA, Biennis.** Pkt., 10c.

**LUPIN, Perennial Mixed.** Pkt., 10c.

### Marigold (A)

(TAGETES)

**Sunset Giants.** Huge flowers; colors range through orange, yellow and primrose. A tall variety and a beauty. 4 ozs., \$5.50; oz., \$1.75;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Guinea Gold.** 2 to 2½ feet. An unusual type of Marigold, color orange flushed with gold. Nearly all flowers are double or semi-double and their odor is less pungent than that of other Marigolds. 4 ozs., \$5.25; oz., \$1.60;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Yellow Supreme.** A large, fluffy, well rounded bloom of delicately milk-honey fragrance, with broad, loose frilled petals of a rich, creamy lemon color. Plants practically free from objectionable Marigold odor. 4 ozs., \$5.50; 1 oz., \$1.60;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Double Tall African.** 4 ozs., \$5.50; oz., \$1.60;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Double Dwarf French.** 4 ozs., \$3.00; 1 oz., \$1.20;  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**Gold Medal Blend.** Pkt., 10c.

**Harmony.** 12 to 14 inch. An annual dwarf French Marigold having scabious-like flowers of deep orange with maroon collars of broad petals, crested centers. Usually free flowering and very early. 4 ozs., \$3.00; 1 oz., 90c;  $\frac{1}{4}$  oz., 30c; pkt., 10c.

**Yellow Pygmy.** 4 ozs., \$5.50; 1 oz., \$1.60;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Spry.** (See this in colors in the center of catalog.) 4 ozs., \$5.50; 1 oz., \$1.60;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Burpee Gold.** Pkt., 10c.

**MATTHIOLA.** Pkt., 10c.

### Morning Glory (A)

(IPOMOEAE)

Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

**Common, Mixed.** Oz., 25c; pkt., 10c.

**Oriental, Mixed.** Oz., 60c; pkt., 10c.

**Heavenly Blue.** Oz., 60c; pkt., 10c.

**Scarlett O'Hara.** Oz., \$1.15; pkt., 15c.

**Pearly Gates.** Oz., \$1.25; pkt., 15c.

**Giant Cornell.** Red with white edge. The best red large flowered Morning Glory. Oz., \$1.35; pkt., 15c.

**Crimson Rambler.** Pkt., 10c.



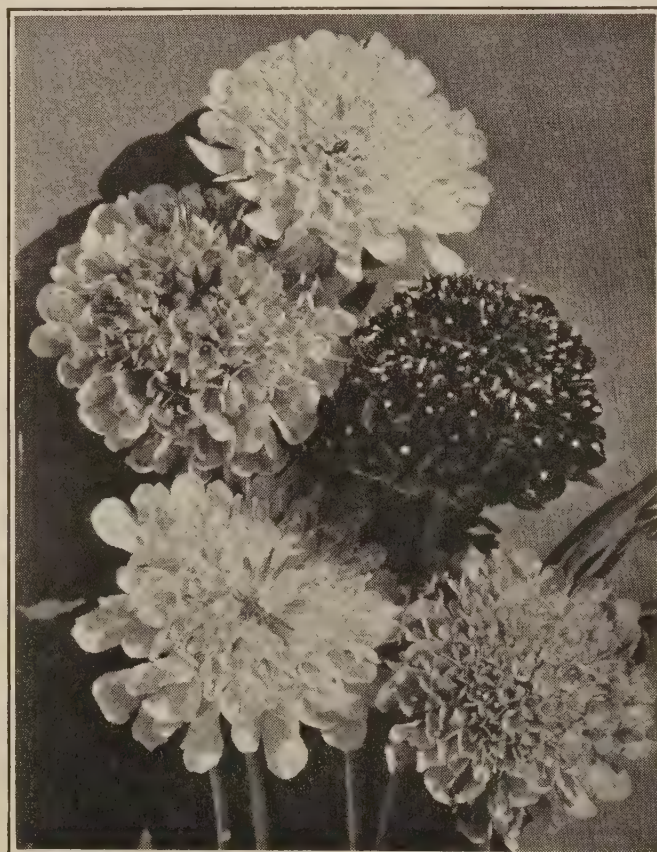
Double Hollyhocks

### Mignonette (A)

**Machet.** The best for all purposes. Of dwarf habit, with very large red flowers and handsome foliage. Oz., \$1.00;  $\frac{1}{4}$  oz., 30c; pkt., 10c.

**MOMORDICA, Mixed.** Pkt., 10c.

**MOONFLOWER.** Pkt., 10c.



Scabiosa—Mourning Bride (A). Listed on page 45





Golden Gleam Nasturtiums

## Nasturtiums (A)

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is a moderately good soil, in a well drained sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blossoms.

**Dwarf, Mixed.** 4 ozs., 85c; 1 oz., 25c; pkt., 10c.

**Tall, Mixed.** 4 ozs., 85c; 1 oz., 25c; pkt., 10c.

**Scarlet Gleam.** Plain petaled and deep throated. This is a sweet scented variety similar to Golden Gleam. 4 ozs., \$1.00; 1 oz., 30c; pkt., 10c.

**Golden Gleam.** An attractive, double-flowered, sweet-scented variety adapted to culture as a bedding or pot plants. Also valuable for cut flowers. 4 ozs., \$1.00; oz., 30c; pkt., 10c.

**Double Glorious Gleam Hybrids.** These hybrids are a collection of gorgeously colored, large, well formed flowers of such dazzling beauty and colors that were never dreamed of before in a double Nasturtium. Mixed colors. 4 ozs., \$1.00; 1 oz., 30c; pkt., 15c.

**NEMESIA, Triumph Mixed.** Pkt., 10c.

**NICOTIANA, Evening Star.** Pkt., 10c.

**OENOTHERA.** See Primrose. Pkt., 10c.

## Pyrethrum (P) (PAINTED DAISY)

One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flower. Flowers in May and June and frequently in August and September; in all shades of rose and pink. Height 1 to 2 feet.

**Roseum.** Single mixed. Oz., \$7.00; ¼ oz., \$2.00; pkt., 10c.

# Petunias (A)

The Petunia loves a rich soil and thrives best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.

## Single Giant Flowering Varieties

The flowers of this strain average five to seven inches across and are wonderful.

**Giants of California, Dwarf Extra Choice Blend.** ¼ oz., \$15.00; ⅛ oz., \$8.00; 1/16 oz., \$4.50; pkt., 50c.

**Giants of California Mixed.** The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. ¼ oz., \$12.50; ⅛ oz., \$7.00; 1/16 oz., \$4.00; pkt., 25c.

## Balcony or Trailing

(15 in.) To droop over the edge of a window box or to overhang a terrace, these are the best Petunias to select. In their several colors the single flowers are very gay either alone or in combination.

**Balcony Black Prince.** Deep velvety mahogany-red, black throat. 1 oz., \$6.75; ¼ oz., \$1.85; ⅛ oz., \$1.00; pkt., 25c.

**Balcony Blue.** Deep violet-blue. Oz., \$6.00; ¼ oz., \$1.65; pkt., 15c.

**Balcony Rose.** Vivid rosy pink. Oz., \$5.25; ¼ oz., \$1.50; pkt., 15c.

**Balcony Mixed.** Several colors. Oz., \$5.25; ¼ oz., \$1.50; pkt., 15c.

## Special Mixture of Dwarf Small-Flowering Varieties.

Includes all the varieties listed and many others, and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the summer lasts. Oz., \$3.75; ¼ oz., \$1.00; pkt., 10c.

**Celestial Rose.** An improvement on the Rosy Morn. More compact in growth and deeper in color. A beautiful rich satiny rose. Oz., \$5.00; ¼ oz., \$1.50; ⅛ oz., 90c; pkt., 10c.

**Violacea.** Deep violet, compact. Oz., \$5.00; ¼ oz., \$1.50; ⅛ oz., 90c; pkt., 15c.

**Snowball.** Pure white; very compact. Oz., \$4.00; ¼ oz., \$1.10; pkt., 15c.

**Silver (Heavenly) Blue.** Pkt., 10c.

**Howard's Star.** Pkt., 10c.

**White King.** Pkt., 10c.

**Glow.** Pkt., 25c.

**King Henry.** Pkt., 25c.

**Giant Ruffled and Fringed.** Pkt., 25c.

**Double Fringed Dwarf Max.** Mixed. Pkt., 75c.

**Dwarf Max. Double Fringed.** Mixed. Pkt., \$1.25.



Rosy Morn Petunia

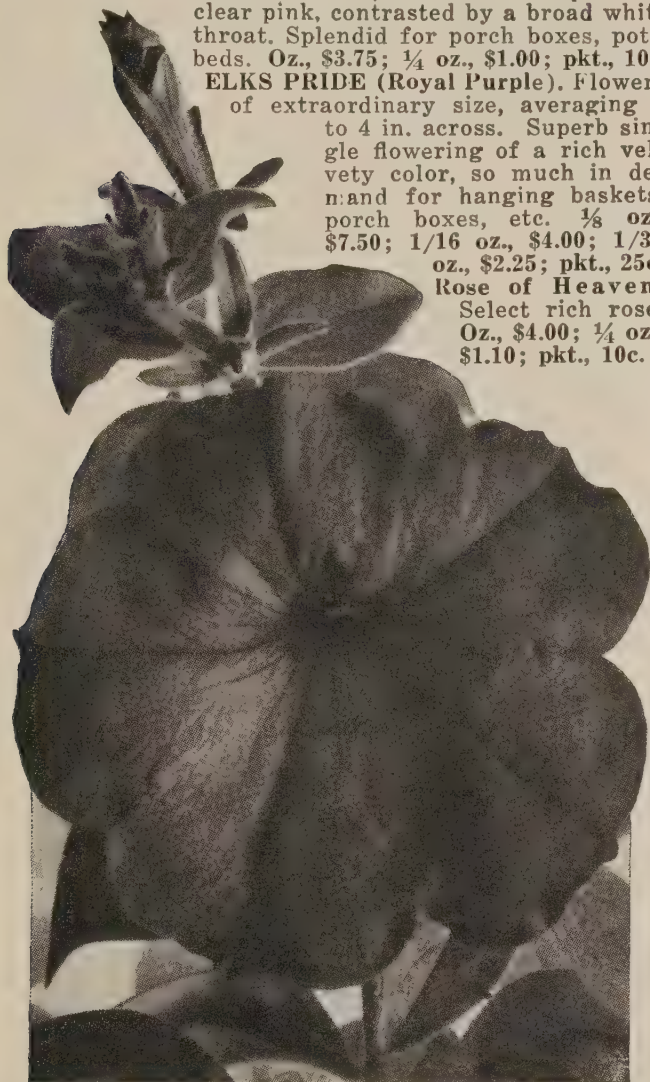


Salmon Supreme. Pkt., 25c.  
 Hollywood Star. Pkt., 25c.  
 Rose King Improved. Pkt., 10c.  
 Cream Star. Dwarf. Pkt., 10c.  
 First Lady. Dwarf. Pkt., 25c.  
 Rose Bedder. Dwarf. Pkt. 10c.  
 Midget. Mixed. Pkt., 10c.

Rosy Morn Select. The plants are bushy and compact, flowers of medium size, produced in great abundance the entire summer and fall; are of a most pleasing clear pink, contrasted by a broad white throat. Splendid for porch boxes, pots, beds. Oz., \$3.75; ¼ oz., \$1.00; pkt., 10c.

ELKS PRIDE (Royal Purple). Flowers of extraordinary size, averaging 3 to 4 in. across. Superb single flowering of a rich velvety color, so much in demand for hanging baskets, porch boxes, etc. ⅛ oz., \$7.50; 1/16 oz., \$4.00; 1/32 oz., \$2.25; pkt., 25c.

Rose of Heaven. Select rich rose. Oz., \$4.00; ¼ oz., \$1.10; pkt., 10c.



Single Petunia, Elks Pride

### Pinks (P) (DIANTHUS)

Double. Selection of the best double Pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades. Oz., \$1.10; ¼ oz., 35c; pkt., 10c.



Garden Pinks



Oriental Poppies

### Phlox (A)

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost or care.

Phlox Drummondii. Unsurpassed for variety of colors. Mixed. Oz., \$2.95; ¼ oz., 90c; pkt., 10c.

Scarlet, Large Flowering. Pkt., 10c.

Phlox Decussata. (Perennial.) ¼ oz., \$1.00; pkt., 10c.

### Oriental Poppies (P)

These should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July and August appearing again as soon as the weather gets cool. It is well to mark the place with a stick so the roots will not be disturbed during the resting period. When the fall growth starts they should be transplanted to their permanent flowering quarters. Flowers of immense size, 6 inches and over, of many novel colors.

Hybrids, New Mixture. ¼ oz., \$1.25; pkt., 10c.

Scarlet. ¼ oz., \$1.00; pkt., 10c.

PRIMULA, Primrose. Pkt., 10c.



Phlox Drummondii





Portulaca—Rose Moss

### Poppies (A)

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

**Shirley, Single.** Lovely and dainty shades, many edged and shaded with other colors.  $\frac{1}{4}$  oz., 20c; oz., 60c; pkt., 10c.

**Shirley, Double.** Beautiful double satiny flowers in shades of white, pink and old rose with white centers. Oz., 80c;  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**American Legion.** Pkt., 10c.

**Double Shirley, Sweet Briar.** Pkt., 10c.

### Pansies (B)

They like a cool, moist soil and protection from the wind as well as the noon-day sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the spring, the seed should be sown in August or September and the plants protected with a cold frame during the winter. May also be sown out-of-doors in the spring for late summer and fall flowers.

**Improved Swiss Giants.** The flowers are of gigantic size, perfectly round, fine substance of flower and good form of plant. They bloom early in the spring, continuing in flower all summer until late in the fall. 4 ozs., \$30.00; oz., \$10.00;  $\frac{1}{4}$  oz., \$3.00;  $\frac{1}{8}$  oz., \$1.75; pkt., 10c.

**Giant Mixture, Donovan Strain.** Flowers very large, and great diversity of colors. This mixture contains all the good ones. 4 ozs., \$28.00; oz., \$9.00;  $\frac{1}{4}$  oz., \$2.50; pkt., 10c.

**PRIMROSE, Showy Evening.** Pkt., 10c.

**PRIMULA, Malacoides, New Baby.** Pkt., 25c.

**RANUNCULUS.** Pkt., 10c.

### Portulaca (A)

(ROSE MOSS)

This plant will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and soon the loveliest of floral carpets will appear. **Double Best Mixture.** Oz., \$2.75;  $\frac{1}{4}$  oz., 80c; pkt., 10c. **Single Mixed.** Oz., \$1.75;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

### Salvia (A) (FLOWERING SAGE)

A hedge or bed of Salvias is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about  $\frac{1}{4}$  inch deep; transplant when soil is well warmed, about 12 to 18 inches apart.



Salvia, Fireball

**Splendens.**  $2\frac{1}{2}$  ft. The well known variety, fiery scarlet. 4 ozs., \$10.00; oz., \$3.00;  $\frac{1}{4}$  oz., \$1.00; pkt., 10c.

**Bonfire.** 24 inches. 4 ozs., \$12.00; oz., \$3.50;  $\frac{1}{4}$  oz., \$1.25; pkt., 10c.

**America.** 18 inches. Early. Dwarf. 4 ozs., \$12.00; oz., \$3.50;  $\frac{1}{4}$  oz., \$1.25; pkt., 10c.

**Farinacea.** Blue. Pkt., 15c.



Salpiglossis



**Salpiglossis (A)**

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped, much like a Petunia but rivaling the latter in the beautiful colors displayed. Nearly every flower is veined with a glint of gold. Flowers are large and last well in water, really better than on the plants. Large Flowering Mixed. Oz., \$1.40;  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**Scarlet Runner (A)**

A very rapid grower, bearing large sprays of bright scarlet, pealike flowers from early summer to late fall.  $\frac{1}{4}$  lb., 75c; oz., 25c; pkt., 10c.

**Shasta Daisy (P)**

(CHRYSANthemum LEUCANTHEMUM)

Grows very bushy, bearing all summer a profusion of immense white flowers on long stems.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Scabiosa**

(Mourning Bride) (A)

Grandiflora Mixed. Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends. Pictured on page 33. 4 ozs., \$3.50; oz., \$1.00;  $\frac{1}{4}$  oz., 35c; pkt., 10c.

Blue Moon. Pkt., 10c.

Caucasica. Lavender-blue.

Pkt., 25c.

SENSITIVE PLANT. Pkt., 10c.

SCHIZANTHUS.

Dr. Badger. Pkt., 10c.



Shasta Daisies

**Rust-Proof Snapdragon (A)**

(ANTIRRHINUM)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced on immense long spikes, which render them well adapted for cut flowers. These strains are the finest obtainable.

Dwarf Mixed. 4 ozs., \$10.00; 1 oz., \$2.80;  $\frac{1}{4}$  oz., 80c; pkt., 10c.

Tall Mixed. 4 ozs., \$9.00; 1 oz., \$2.50;  $\frac{1}{4}$  oz., 75c; pkt., 10c.

Giant Bedding Pink. R. R. Pkt., 10c.

Giant Bedding White. R. R. Pkt., 10c.

Giant Bedding Yellow. R. R. Pkt., 10c.

Giant Bedding Mixed. R. R. Pkt., 10c.

**Stocks (A)**

Ten Weeks Large Flowering. The favorite sort for bedding. Grows about 1 ft. high. Mixed, all colors, 4 ozs., \$6.00; oz., \$1.75;  $\frac{1}{4}$  oz., 50c; pkt., 10c.

Mammoth Beauty of Nice, Mixed. Pkt., 10c.

Giant Imperial Crimson. Pkt., 10c.

Giant Imperial Purple. Pkt., 10c.

Giant Imperial Rose. Pkt., 10c.

Giant Imperial Golden Rose. Pkt., 10c.

**Sunflower (A)**

(HELIANTHUS)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 feet.

Double Chrysanthemum-Flowered. Large, golden yellow flowers, resembling a Chrysanthemum. 4 ozs., \$1.85; oz., 50c; pkt., 10c.

Red and Gold. Pkt., 10c.

SNOW-ON-THE-MOUNTAIN. Pkt., 10c.

STATICE, Mixed. Pkt., 10c.



Sweet William

**Strawflower (A)**

(HELICHRYSUM)

An ornament to the garden when growing, and are prized everywhere for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place. Mixed, All Colors. 4 ozs., \$4.50; oz., \$1.25;  $\frac{1}{4}$  oz., 40c; pkt., 10c.

SWEET SULTAN. Pkt., 10c.

**Sweet William (P)**

This sturdy, reliable old-fashioned favorite is still a source of delight in the garden of today. Seed may be sown at any time from spring to midsummer. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. It is best if you give slight protection during the winter. It likes warm, rich soil. 2 feet.

Single, Finest Mixed. A very choice assortment of all the best single flowered varieties. 4 ozs., \$5.00; oz., \$1.35;  $\frac{1}{4}$  oz., 40c; pkt., 10c.

Double Mixed. This mixture you will find of superior quality, containing all colors and shades. 4 ozs., \$8.25; oz., \$2.00;  $\frac{1}{4}$  oz., 60c; pkt., 10c.

Single Early Flowering. Dwarf Midget Mixed. 6 inches. A dwarf variety ideally adapted for early flowering, and for the perennial border as well as pot plants. 4 ozs., \$18.00; oz., \$5.00;  $\frac{1}{4}$  oz., \$1.50; pkt., 10c.

SWEET WIVELSFIELD. Pkt., 10c.

TEXAS BLUE BONNET. Pkt., 10c.



Ten Weeks Stocks

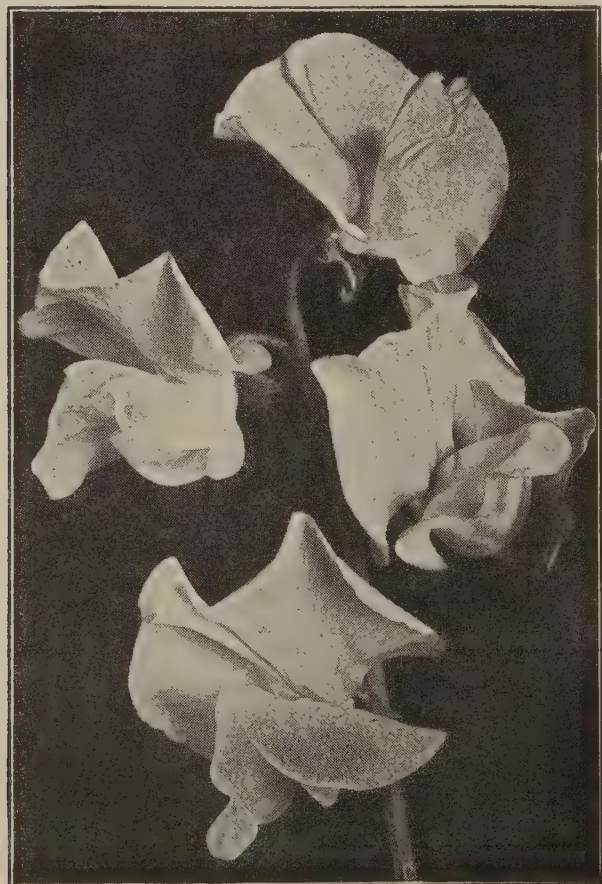


# Beautiful Sweet Peas

To grow Sweet Peas successfully it is necessary to plant **EARLY** and give plenty of moisture. They should go in the ground as soon as the ground can be worked and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and if the Sweet Peas are kept mulched with peat moss, lawn clippings or else watered abundantly, they will certainly give a fine crop of lovely flowers held in admiration by every flower lover. The mixture we give you below will give you color in profusion and is well worth your consideration.

## Superb Spencer Mixed

A great many people prefer to grow Sweet Peas in the mixed colors. Our superb Spencer Mixture is made up of all the best varieties obtainable. The greatest care is taken to insure a well balanced range of colors and worthy of a place in any garden. Pkt., 10c; oz., 25c;  $\frac{1}{4}$  lb., 65c; 1 lb., \$2.25, postpaid.



Gigantic



Fluffy Ruffles

## Summer Flowering Spencer Varieties

We give you below the best of the Spencer varieties in a range of individual colors for those who want to work out a color scheme. Each one is a rare beauty and worthy of a place in your garden:

**Ambition.** Rich deep lavender.

**Fluffy Ruffles.** Rich rose-shaded salmon and cream duplexed.

**Gigantic.** Largest and best of the whites.

**Mary Pickford.** Dainty cream-pink, suffused salmon.

**Mrs. Tom Jones.** Bright blue.

**Crimson King.** Rich deep clear crimson.

Any of the above: Pkt., 10c.

**Perennial Sweet Peas.** (*Lathyrus latifolius*.) (Hardy Sweet Pea). Very decorative, climbing vine of the Pea family for growing on fences, trellis, etc., and for cutting. Blooms all summer if the seed pods are removed. Mixed. Oz., \$1.25; pkt., 10c.





Giant Dahlia-Flowered Zinnia

## Verbena (A)

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when the seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

**Mammoth Mixed.** Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. 4 ozs., \$6.50; oz., \$1.90; ¼ oz., 60c; pkt., 10c.

**Scarlet (Defiance).** Pkt., 10c.



Zinnia, Fantasy

**VIOLA, Blue Perfection.** Pkt., 25c.

**Jersey Gem.** Pkt., 25c.

**Mixed.** Pkt., 10c.

**WHITLAVIA.** Pkt., 10c.

**VINCA, Rosea.** Pkt., 10c.

**VIRGINIAN STOCK, Mixed.** Pkt., 10c.

**WALLFLOWER, Double Mixed.** Pkt., 10c.

**WILD GARDEN MIXTURE.** Pkt., 10c.

## Zinnias (A)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

**Fantasy.** This new Fantasy mixture with rounded flowers is composed of a mass of shaggy, raylike petals which give a delicate and refined appearance to the medium sized double flowers. The color range includes the brightest shades of red and orange, as well as the popular pastel pinks and cream. 1 lb., \$12.00; 4 ozs., \$3.50; oz., \$1.00; ¼ oz., 35c; pkt., 10c.

**Double Fantasy Mexicana Hybrid.** Pkt., 10c.

**Colossal or California Giant Flowered.** The flowers are gigantic in size; thickly set with velvety petals. The plants are vigorous, branching freely and are fine for cutting. **Mixed colors.** 1 lb., \$11.00; 4 ozs., \$3.25; oz., 90c; pkt., 10c.

**Giant Double Lavender.** Pkt., 10c.

**Giant Double Purple.** Pkt., 10c.

**Giant Double Crimson.** Pkt., 10c.

**Giant Double Rose.** Pkt., 10c.

**Giant Double Yellow.** Pkt., 10c.

**Giant Double Orange.** Pkt., 10c.

**Giant Double Pink.** Pkt., 10c.

**Giant Double White.** Pkt., 10c.

**Giant Dahlia-Flowered.** In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias. **Mixed colors.** 1 lb., \$11.00; 4 ozs., \$3.25; oz., 90c; pkt., 10c.

**Dahlia-Flowered Crimson.** Pkt., 10c.

**Dahlia-Flowered Orange and Gold.** Pkt., 10c.

**Dahlia-Flowered Scarlet.** Pkt., 10c.

**Lilliput Double, Mixed, or "Pompon."** 12 inches. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are pretty plants. 1 lb., \$11.00; 4 ozs., \$3.25; oz., 90c; pkt., 10c.

**Indian Summer Giant Mixture.** Pkt., 10c.

**All Giant Pastel Mixture.** Pkt., 10c.

**Creeping Zinnia.** Pkt., 10c.

**Cupid Tiny Tim.** Pkt., 10c.

All prices quoted herein are subject to available stocks on hand, and subject to change without notice.



# Making a Lawn and Its Care

## Preparing the Soil

The most desirable soils for the lawn are the "loams", but if the soil available for the building of a lawn is a tight clay, sand should be added, or if a sandy soil, humus is needed, which would make it as nearly a loam as possible.

Even such simple tasks as spading are important and should be done with care. The depth of the surface soil largely determines the depth to which one should spade. If the top soil is six inches or less in thickness, work it to the depth of the surface soil. Never turn up the subsoil.

To get the best results from spading, each shovelful of soil is turned over and placed upon the edge of the hole away from the spader. It is then pulverized with a tap of the spade. This not only breaks up the mass, but carries the granulated soil back into the hole from which it was originally taken.

After the spaded soil has been well pulverized, grade the soil to slope gently from the house. The grading will prevent water from standing around the foundation of the house. Next, level and roll until the seedbed is firm.

## Applying Plant Food

When the seedbed has been completed, Vigoro, the complete balanced plant food, or Milorganite should be applied. The lawn is never so effectively fed as before the grass seed is sown. The plant food should be applied and spread evenly over the surface of the soil at the rate of 4 pounds per hundred square feet, and worked into the top few inches.

## Sowing Seed

After the plant food has been worked into the soil, the seed should be spread uniformly over the surface at the rate of 4 or 5 pounds per one thousand square feet of soil. The seeding should be done by going in both directions to get an even distribution, both at the ends as well as the center of the throw.

A covering of clean straw or coarse cheesecloth on the steep slopes will help to prevent washing which may occur before the grass becomes established.

## Feeding

About 8 or 10 weeks after the lawn is seeded the young grass should again be fed either Vigoro, the complete balanced plant food, or Milorganite. The application is made at the rate of 2 pounds per hundred square feet of lawn.

The plant food should be applied when the grass is dry and then brushed from the grass with a broom or the back of a rake and the lawn should immediately be given a thorough soaking to wash the fertilizer from the grass and carry it into the soil. If the plant food is allowed to remain on the grass and moisture should reach it the result would be a burning of the tender leaves. To prevent this, a thorough watering is very essential.

Well-fed grass withstands the inroads of weeds and also resists injury from the attack of certain diseases. and by regular feeding with an application of Vigoro or Milorganite will reduce the amount of reseeding necessary. The greater development of the root system and the ability to store up reserves of food material, make well-fed grass able to withstand the extremes of either winter or summer weather and to maintain a dense turf year after year.

Special care must be given the lawn throughout the hot summer months, as Kentucky Blue grass needs a resting period in mid-summer, and Red Top will grow most anywhere and has its resting period in the fall after the Kentucky Blue Grass has recovered. If excellent growth and vigor have been maintained during the spring, the lawn can be kept in a green vigorous condition during the summer, by careful watering, feeding and clipping.

At the approach of fall, lawns should again have a thorough application of either Vigoro or Milorganite, applied at the rate of 4 lbs. per hundred square feet, and the lawn should be thoroughly soaked, following the application, as stated above.

## Care of the Lawn

Young grass should be allowed to grow three inches high before the first cutting, but on established lawns the grass should be cut quite short until the middle of May. Fertilize it well and try to get a complete ground cover, and after this has been accomplished, keep it cut as long as possible. Lower the wooden roller on your mower or better still, alter it or secure one that will cut three inches high. Plenty of leaf growth will shade the grass roots in hot weather and best of all, provide a laborless way of preventing weeds and crab grass from seeding, as weeds will not grow in a thick shady stand of grass and crab grass will not germinate even in semi-shade.

Whenever you are applying water to an established lawn be liberal with the amount used, as the water should penetrate 4 inches to do any good, and light sprinklings do injury—not good; they are about the worst treatment you can give your lawn.

It is best to water only once a week on clay soil, but it should be applied so that the water is quickly absorbed into the soil. Sandy soils dry out more quickly, and lighter and more frequent waterings are necessary.

## Grade "A" Sunny Lawn Mixture

This is our own mixture, containing Kentucky Blue Grass, Fancy Red Top, Chewings Fescue, Domestic Rye Grass, and 10% pure White Clover. Wonderful results are and have been obtained with this mixture. We use only the very best of seeds obtainable, of lasting value and hardiness, giving you a beautiful and permanent lawn that will last for years.

## Grade "A" Shady Lawn Mixture

Contains Chewings Fescue, Poa Trivialis, Kentucky Blue Grass and Red Top. This mixture is also our own, being mixed by ourselves especially for the shady spots. We use only the very best of seeds obtainable and as more care and attention is required we have used the hardier grasses, that will make a dense, thick growth in light soils and a very satisfactory lawn in shady places or where sun is available only a part of the time.

Inasmuch as we mix our own grass mixtures we have the individual grasses for those who want straight grasses in one spot or another.

**Kentucky Blue Grass, June Grass** One of the best grasses for permanency. For lawns or pasture, it has no superior. Does well in any soil and stands the summer heat remarkably well. As it takes some time to become established, it is usually sown in mixtures.

**Red Top** A very hardy perennial grass, succeeding best on moist land. Valuable for lawn or pasture, and will produce large crops of good hay.

**Domestic Rye** An annual grass, coarser than blue grass, being used extensively on banks and terraces.

**White Clover** (Dutch). A small, low growing variety. It is largely used in lawns and pastures. It makes a small, close, compact growth covering the ground like a carpet. Its blossoms are round, white and sweet scented, with leaves of bright green color.

**Poa Trivialis** (Rough Stalked Meadow Grass). Very closely related to Kentucky Blue Grass. It is mostly used in shady places but will thrive in any soil.

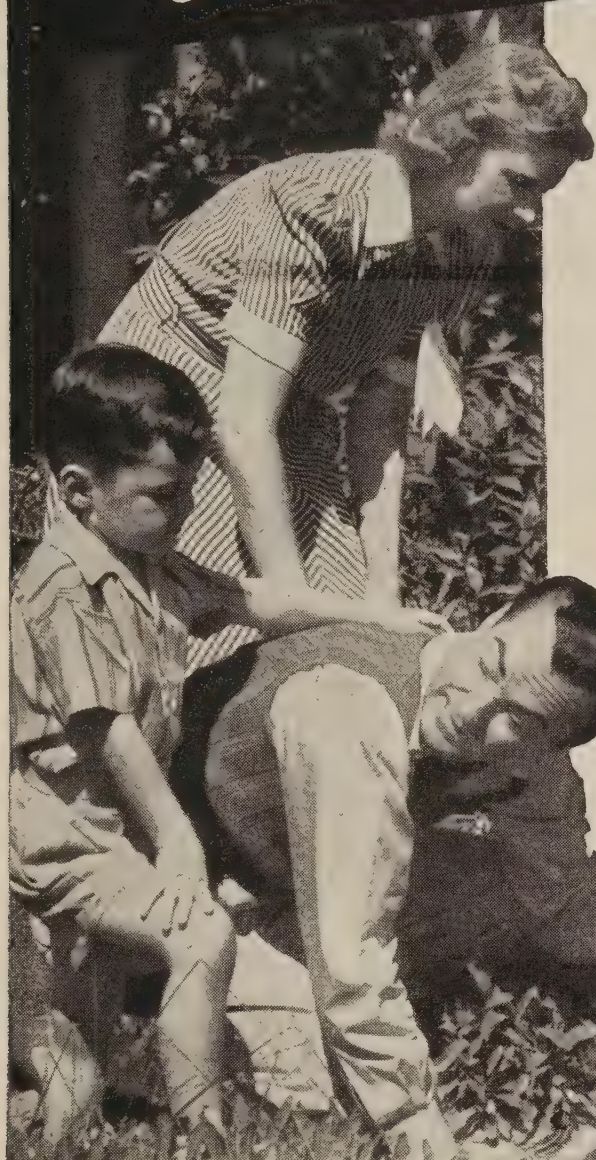
**Creeping or Red Fescue** Resists extreme drought, thrives on inferior soil, gravelly banks and exposed hills.

**Bent Grass** One of the most valuable lawn grasses. Exceptionally good for golf courses, greens, etc., because of its short growth and deep green, fine-leaved foliage. Requires very rich soil and plenty of moisture.

Mail Orders are Solicited and Prices Will be Quoted on Request.



# ADD AN *Outdoor Living Room* TO YOUR HOME



It's really easy to have an inviting garden where the entire family can spend countless, joyful moments together. Start with a good lawn—frame it with shrubs and trees . . . decorate with flowers.

And for success feed everything you grow with VIGORO, complete plant food.

Vigoro has been used year after year with fine results by millions of gardeners everywhere. It's clean, odorless, sanitary, and easy to use. Best of all, this plant food, made by Swift & Company, is COMPLETE PLANT FOOD . . . Balanced for grass and for flowers, shrubs, trees and your vegetable garden. It is economical to use. You need only 4 pounds of Vigoro to properly feed everything you grow.

A PRODUCT OF SWIFT & COMPANY

## VIGORO

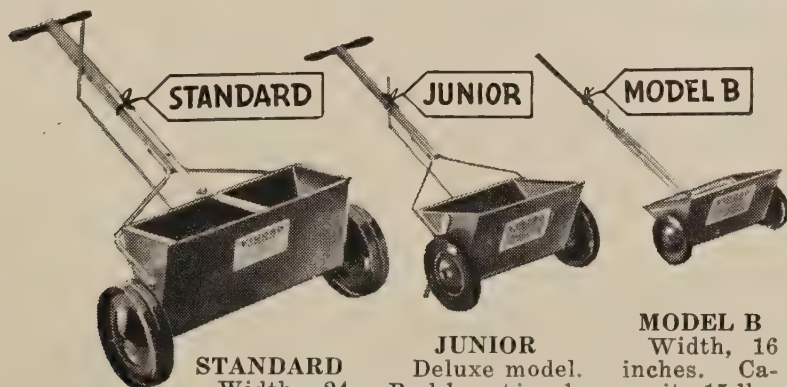
COMPLETE PLANT FOOD



### VIGORO PRICES

For Lawns, Flowers, Vegetables,  
Shrubs and Trees.

100-lb. bag . . . \$4.00	10-lb. bag . . . \$0.85
50-lb. bag . . . 2.50	5-lb. bag . . . .45
25-lb. bag . . . 1.50	1-lb. bag . . . .12



**STANDARD**  
Width, 24  
inches. Ca-  
pacity 65 lbs.

**JUNIOR**  
Deluxe model.  
Rubber-tired.  
Width 16 in.  
Capacity 35 lbs.

**MODEL B**  
Width, 16  
inches. Ca-  
pacity 15 lbs.

### USE A VIGORO SPREADER!

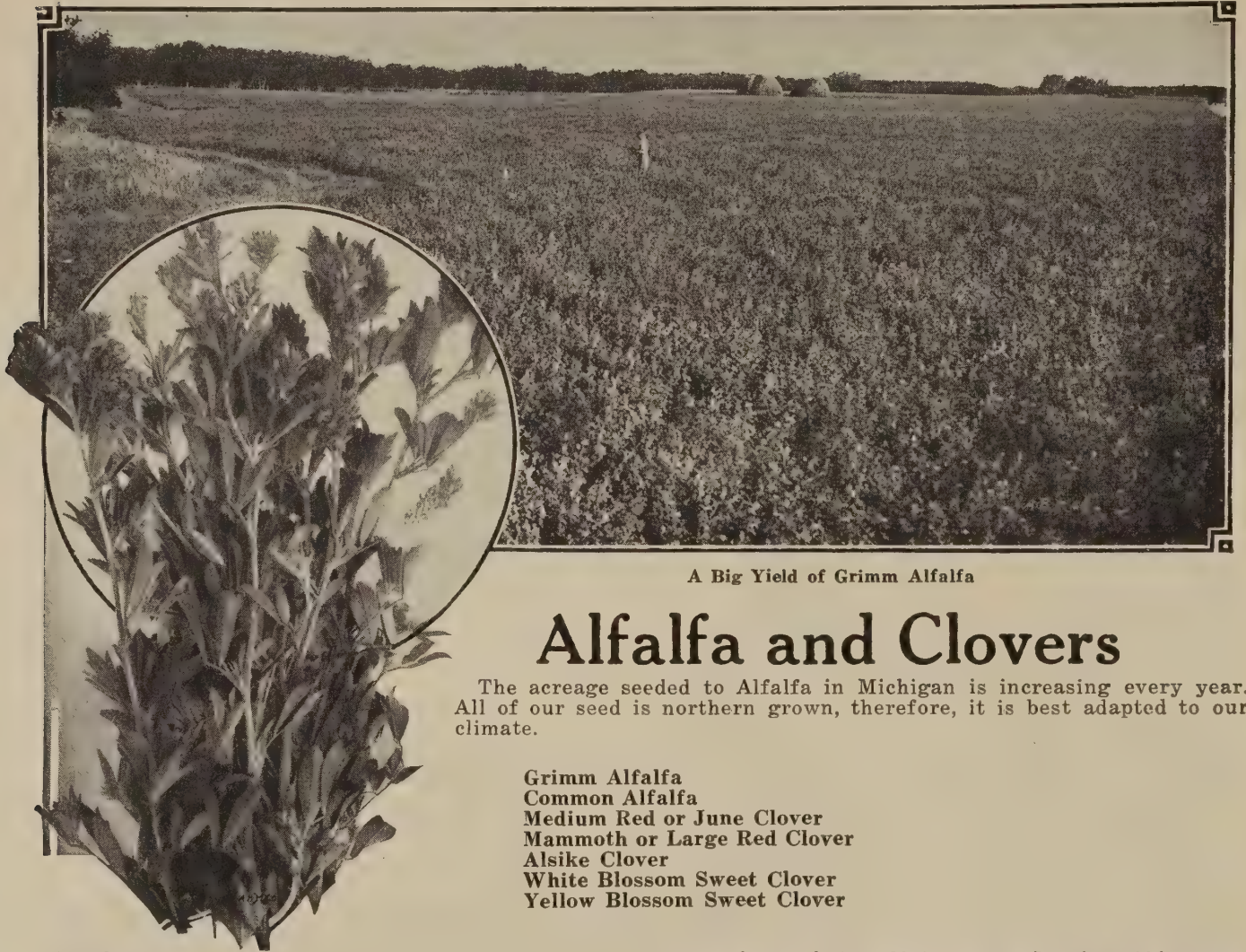
Once you use a Vigoro Spreader you'll say it's just as important as your lawn mower . . . Applies Vigoro at proper rate of application quickly and easily. Sows grass seed to perfection at a big saving in seed. All models sturdily constructed of metal to last many years.

**SPECIAL**  
(Not Shown)  
Width, 36 in.  
Capacity 100  
lbs.

Ask for Prices  
Do a better job of  
applying Vigoro, lawn  
seed, etc. Saves time,  
money and labor.



# FIELD and FARM SEEDS



A Big Yield of Grimm Alfalfa

## Alfalfa and Clovers

The acreage seeded to Alfalfa in Michigan is increasing every year. All of our seed is northern grown, therefore, it is best adapted to our climate.

Grimm Alfalfa  
Common Alfalfa  
Medium Red or June Clover  
Mammoth or Large Red Clover  
Alsike Clover  
White Blossom Sweet Clover  
Yellow Blossom Sweet Clover

Timothy  
Orchard Grass  
Sudan Grass  
Reed Canary Grass  
Brome Grass (Bromus Inermis)  
Amber Cane  
Atlas Sorgo  
Soy Beans  
Japanese Millet  
Golden Millet  
Lespedeza  
Dwarf Essex Rape  
Sand Vetch  
Silverhull Buckwheat  
Canadian Field Peas  
Wisconsin 38 Barley  
Marion Oats  
Huron Oats  
Vickland Oats

### Seed Corn HYBRIDS

Kingcrost Hybrids  
Michigan Hybrids  
Silobred Ensilage  
Wisconsin 355

### OPEN POLLINATED

Pickett's Yellow Dent  
Golden Glow  
Early Murdock  
Early White Cap Yellow Dent

### Fodder Corn

Leaming  
Red Cob  
Eureka Ensilage

Inoculate all Legume Seeds with

## NITRAGIN

1898—A HALF CENTURY OF SERVICE—1948

When ordering, Always state name of seed.

### ALFALFA (A)

Size	Retail
1 bu. each.....	\$ .50
2½ bu. each.....	1.00

### CLOVERS (B)

Red, Alsike, Crimson, White and Ladino.

1 bu. each.....	\$ .50
2½ bu. each.....	1.00

### LESPEDEZA (L)

100 lb. size (Inoculates up to 100 lbs.) ea.....\$ .50

### PEAS, VETCHES (All Varieties) (C)

100 lb. size (Inoculates up to 100 lbs.) ea.....	\$ .50
1200 lb. size ea.....	5.70
(12-100 lb. cans)	

### LUPINES (All Varieties)

100 lb. size (Inoculates up to 100 lbs. seed) ea.....\$ .50

**GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans.**

Enough for 8 lbs. seed — Retail Price 10c each

### SOYBEANS (S)

Size	Retail
Small (Inoculates up to 120 lbs. seed) .....	\$ .30
5 bu. each .....	.55
25 bu. (One can) ....	2.50
30 bu. (6-5 bu. cans) ..	3.25

**BEANS—Navy, Pinto, Wax, String, Kidney and Great Northern**

1 bu. each.....\$ .35

### PEANUTS, COW PEAS (E)

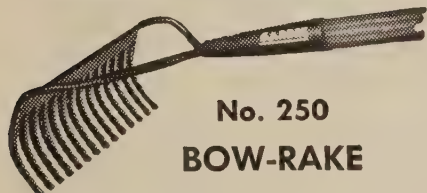
Small (Inoculates up to 120 lbs. seed) .....	\$ .30
5 bu. each .....	.55
25 bu. (One can) ....	2.50
30 bu. (6-5 bu. cans) ..	3.25

Permit us to quote you on your requirements.



# GARDEX Hand Tools

## **GARDEX**



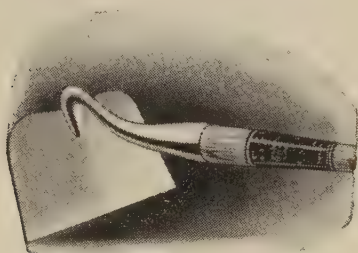
**No. 250  
BOW-RAKE**

14 teeth, 14 inches wide, depth of head  $3\frac{3}{8}$  inches, handle 5 feet. \$1.40 each.



**No. 253  
Floral Rake**

10 teeth,  $7\frac{1}{2}$  inches wide, depth of head  $2\frac{9}{16}$  inches, handle  $3\frac{3}{4}$  feet. 75c each.



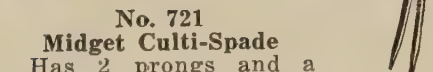
**No. 906 $\frac{1}{2}$  Garden and Field Hoe**  
Sharpened blade, half polished, of high carbon steel; width  $6\frac{1}{2}$  inches, 4-foot handle. 85c each.



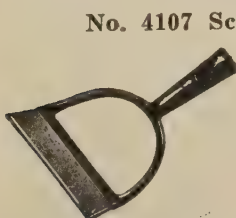
**No. 121-5**  
Has a single bow for close-in work. Ideal for shrubbery and under plant leaves. Light in weight. 5 inches wide, 4-ft. handle. \$1.10 each.



**No. 732 Midget Culti-Hoe**  
Has 3 prongs and a square, sharpened blade  $2\frac{3}{8}$  inches in width. Overall length 12 inches. 50c each.



**No. 721  
Midget Culti-Spade**  
Has 2 prongs and a pointed, sharpened blade  $2\frac{3}{8}$  inches in width. Overall length 12 inches. 45c each.



**No. 4107 Scuffle Hoe**  
A push type hoe for drive-ways as well as gardens. 7 inches wide. Depth  $1\frac{1}{8}$  in. Handle  $4\frac{1}{2}$  ft. \$1.35 each.



**No. 403 Lawn Sweep**  
Made of special tempered spring steel with flat, flexible teeth. 22 teeth, 18 inches wide, handle  $3\frac{1}{2}$  feet. \$1.35 each.

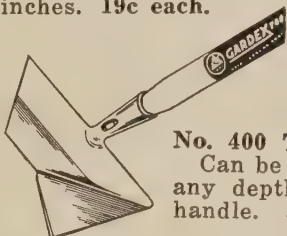
**No. 404 Wire Broom**  
Made exactly as the No. 403 except it has round wire teeth. 20 teeth, 20 inches wide, handle 4 feet. \$1.35 each.



**No. 740 Trowel**  
High carbon steel blade. Depth  $5\frac{1}{8}$  inches, width  $3\frac{1}{4}$  inches, overall length  $11\frac{1}{4}$  inches. 50c each.

**Trowel, Cast Aluminum**  
Very sturdy, in one piece. Overall length 12 inches. 70c each.

**Trowel, Sheet Metal**  
Light weight. Overall length 12 inches. 19c each.



**No. 400 Turf Edger**  
Can be held to cut any depth.  $4\frac{1}{2}$ -foot handle. \$1.75 each.

**No. 200-6  
Hand Plow**  
6 in. wide, 5-ft. handle. \$1.75 each.

**No. 200-8  
Hand Plow**  
8 in. wide, 5-ft. handle. \$1.95 each.

**No. 700  
Hand Hoe**  
A small hand hoe. Ideal for a small garden. 25c each.



**No. 703 Midget Fork**  
Handy for many purposes. 3 in. wide; overall length 11 in. 35c each.

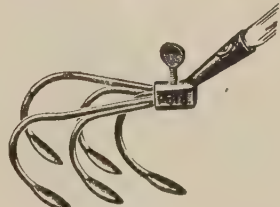
**No. 1635  
Diamond Point  
Hand Cultivator**

7 tools in one. It's interchangeable for wide or narrow rows or to straddle row. Adjustable  $1\frac{3}{16}$ -inch to 8-inch width. 5-ft. handle. \$2.20 each.



**No. 1605  
Hand  
Cultivator**

7 tools in one cultivator. Can be changed in a jiffy. Ideal for hot-beds or greenhouses. Adjustable  $\frac{3}{4}$ -inch to 7-inch width. 5-foot handle. \$1.50 each.



**No. 1553  
Improved  
3-Prong  
Cultivator**

Diamond point shares, 6 inches wide. Handle  $4\frac{1}{2}$  feet. \$1.45 each.

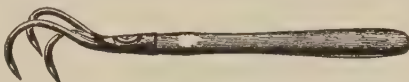


**No. 1503  
3-Tine  
Cultivator**

Designed for loosening and air conditioning the soil.  $3\frac{1}{2}$  inches wide. 4-foot handle. \$1.00 each.



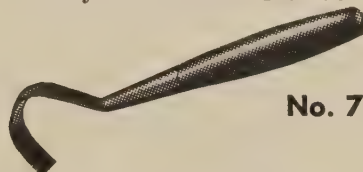
**No. 714 Midget Culti-Weeder**  
Same as No. 713 with weeding blade added. 50c each.



**No. 713 Midget Cultivator**  
For use in small beds and narrow rows. 3 inches wide. Overall length 11 inches. 40c each.

## **GARDEX**

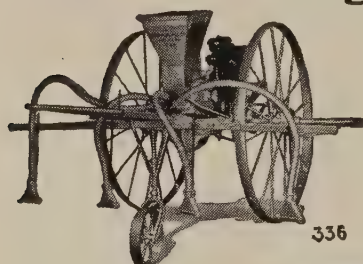
**One-Prong Cultivator**  
Handy for close work. 25c each.



**No. 710**



## The Messinger Line of Dusters



No. 336 SEP-4 V Self-Propelled Duster. With adjustable wheel gauge.

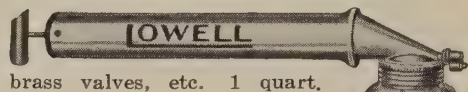
336



428A

No. 428A. Traction Wheelbarrow Duster with 4 Nozzles. Also furnished with two "V" nozzles or two whirlpool nozzles as shown.

No. 206G. 11½" x13" pump. Adjustable 2-way nozzle. Heavy glass container, brass valves, etc. 1 quart. \$1.50 each.



No. 270 Premier. 1-qt. garden sprayer, tin. 60c each.

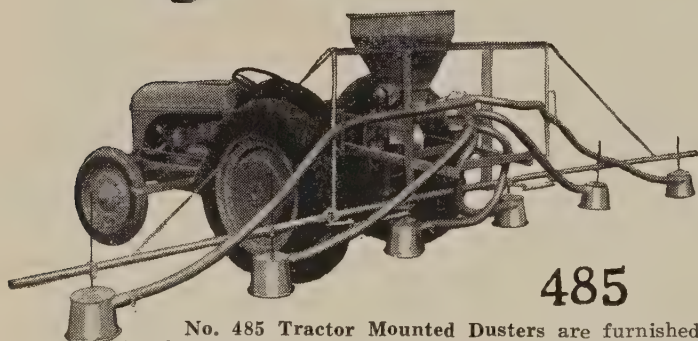
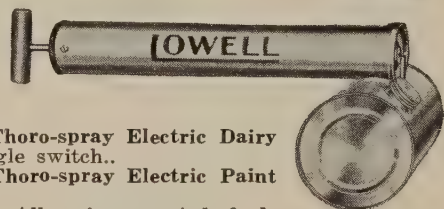
No. 265 Nu-Day. 1-pt. garden sprayer, tin. 45c each.

We also handle the Dobbins line of small sprayers. Also Dobbins No. 200 2-row crop dusters, Stauffer Knapsack Duster.

No. 309 Lowell Thoro-spray Electric Dairy Sprayer. With Toggle switch..

No. 305 Lowell Thoro-spray Electric Paint Sprayer.

Inquiries solicited. All prices quoted f.o.b. Grand Rapids.



485

No. 485 Tractor Mounted Dusters are furnished for most one plow tractors up to 8 rows. Shown is the model "R-Sr." with whirlpool nozzles. Also furnished with tree or drift tube and operator's platform.

### SPRAYERS

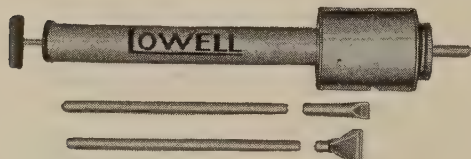


No. 94G Lowell Streamer. Seal Tite Nu Top. Capacity 3½ gallons. 21 inches high. 24 inch, high pressure spray hose, 2 foot brass extension. All brass nozzle. Price: \$8.50.



No. 46G Lowell Pennant. Seal Tite Nu Top. Capacity 4 gallons. 21 inches high, 27 inch high pressure spray hose, 2 foot brass extension. All brass nozzle. Price: \$10.50.

No. 132 Dobbins Hand Dust Gun. Ideal for all garden dusting. \$1.50 ea.



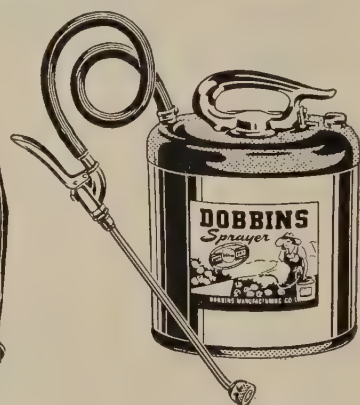
No. 461. Household Duster. 12 in. overall, 1½ in. diameter. Ideal for use in exterminating pests in the home, henhouse, barn, etc. 40c each.



No. 465. Qt. capacity, 20" over all, plus two 12" extensions, 1½" diameter pump. Ideal for use in field and garden. \$1.20 each.



No. 34G Dobbins Bighead Sprayers. Tank 3½ gal. capacity. The Bighead provides a large 4" diameter opening for filling, and permits positive cleaning. 30" of ¾" high pressure hose. 24" brass extension, with aphid angle nozzle. Price: \$7.90.



No. 8 Dobbins De-Luxe Garden Sprayer. Tank 2-gal. cap. galv. steel, funnel fill top, 3 feet ¾ inch high pressure hose, 12-in. curved brass extension. Price: \$8.30.

No. 210 Dobbins Flame Sprayer. It burns, heats, disinfects, sterilizes, thaws, dries. Flame temperature 2000 degrees. 4-gal. capacity heavy galv. steel tank 7' of ¾" high pressure hose. Heavy steel welded torch of improved design. Positive needle valve control. Price: \$19.25.



### Root Dusters

Hand Gun, C-3. Traction Dusters. 1- and 2-row. Power Dusters. All sizes. Your Inquiries Solicited.

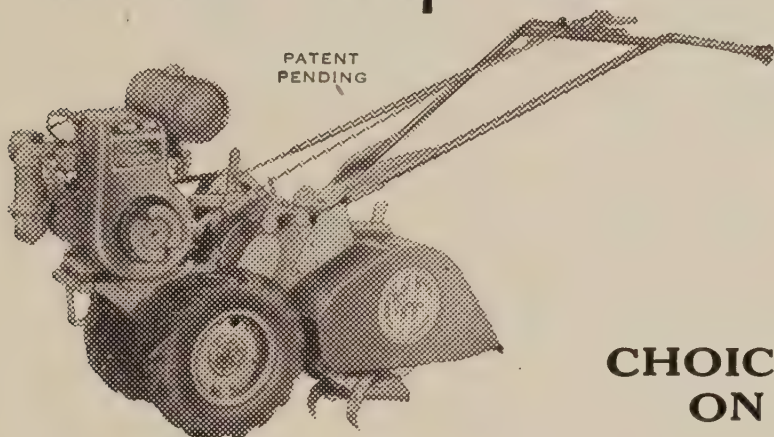
All Prices Subject to Change Without Notice.





## ROTARY GARDEN TILLERS

### GUARANTEED to Increase Crop Yield



Note the sturdy construction of the tillage unit—the heavy tines are designed to allow average field stones to pass through—unit lifts over larger stones.

The purpose of Rotary Tillage is to mulch vegetation throughout the tilled depth. To make available more minerals and moisture for plant crop roots. To save time, labor and fuel—increasing crop yield and farm profits.

One of the most important reasons for Rotary Tillage is to put back into the soil those minerals that have been removed over a period of years. Here is a tool that will help the grower return his land to the status in which our forefathers found the soil when they migrated to this country.

### CHOICE OF HORSEPOWER ON GARDEN MODEL

The M-E G-16 Rotary Garden Tiller, illustrated to left, is available with either 5 HP or 6 HP 4-cycle air-cooled power unit. Standard accessories are also available, including snowplow, bulldozer, sickle bar, and hiller-furrower combined. Power take-off models also available. Ask for descriptive circular. Prices gladly quoted upon request.

## PLANET JR. TOOLS

We handle the Entire Planet Jr. Line of Tools and Tractors, as Well as Repair Parts. Write for Catalog and Price List.



### No. 13 Double Wheel Hoe

To those who like a double wheel cultivator we recommend this machine. The two wheels make the going more steady.

### No. 300 Planet Jr. Seeder

The ideal machine for the market gardener. Drops evenly and accurately any vegetable seed from the smallest up to Bush Lima beans. New style waved feed wheel does not crush or break beans or peas. Hopper can be removed in a few seconds to empty leftover seeds.



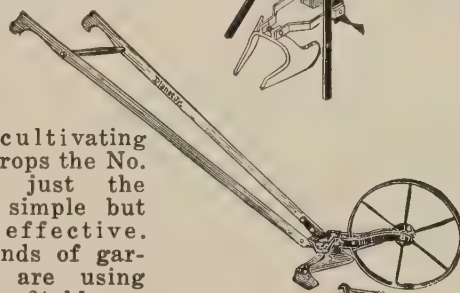
### No. 219 Cultivator with Fertilizer Attachment

This handy machine answers the call for a light, inexpensive, practical tool for side-dressing growing crops. Small enough to go between 12-inch rows. It will handle nitrate and commercial fertilizers.



### No. 18 Single Wheel Hoe

For cultivating small crops the No. 18 is just the thing; simple but very effective. Thousands of gardeners are using them profitably.





# Farm Fertilizers

Commercial fertilizers are those which are used for general farm purposes, and are composed of the three elements of plant food, namely Nitrogen, available Phosphoric Acid and Potash K<sup>2</sup>O and are mixed by the world's largest fertilizer manufacturers in the proper proportions, so as to give your soil the proper available plant food to produce a maximum crop. We handle large quantities of the various analyses every year and will ask that you consult us and get the right fertilizer for your specific needs. Prices will be quoted upon application.

Mixed Fertilizers. Standard analyses.	Lime
Nitrate of Soda	Manganese Sulphate
Sulphate of Ammonia	Aluminum Sulphate
Super Phosphate	Copper Sulphate
Muriate of Potash	Ammonium Nitrate
Steamed Bone Meal	Cyanamid
Pulverized Sheep Manure	Zinc Sulphate
Shredded Cattle Manure	Magnesium
	Iron Sulphate



**MILORGANITE**  
IDEAL FERTILIZER

Milorganite is a natural unadulterated organic plant food. It contains more of the "basic" fertilizer elements than good old barnyard manure and is richer

in the vital "trace elements" also. The effects on growth are long lasting High in purity, non-burning, and it is easy to use. It is clean, dustless and free flowing. Ideal for lawns, trees, shrubbery and gardens.

25 lbs. ....	\$1.10	500 lbs. ....	\$14.25
50 lbs. ....	1.85	1000 lbs. ....	26.50
100 lbs. ....	3.00	2000 lbs. ....	50.00

F.o.b. Grand Rapids

**KEM LIQUID PLANT FOOD.** 4 ozs., 10c; 12 ozs., 25c; 1 qt., 50c; 1 gal., \$1.00.

# Insecticides and Seed Disinfectants

**Arsenate of Lead.** For all leaf-eating insects. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

**Black Leaf 40.** A solution of Nicotine Sulphate used to kill plant lice. 1-oz. bottles, 5-oz. bottles, 1-lb. bottles, 2-lb. bottles, 5-lb. cans, 10-lb. cans, and 50-lb. drums.

**Black Leaf 155.** 14% Nicotine. A prepared dry compound of nicotine for the control of codling moth and other insects. 3-lb. pkgs.

**Bordeaux Mixture.** Used in spraying for blight and fungous diseases. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

**Arasan.** A seed disinfectant and protectant for Corn and vegetables, particularly Onions.

**Tree Tanglefoot.** For safeguarding trees and vines against climbing insect pests. Will remain sticky when fully exposed to the weather. 6-oz. size, 45c; 1-lb. size, 80c; 5-lb. size, \$3.75; 10-lb. size, \$7.00; 25-lb. size, \$15.00.

**Calomel, "Merck."** Used for Onion thrip, Potato scab, and neck rot on Gladiolus. A seed treatment for Cabbage and Cauliflower seed as well as field treatment.

**Calcium Arsenate.** Used in dusting or spraying Cabbage and Potato crops. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

**Ceresan, New Improved.** Seed disinfectant for Wheat, Oats, etc. 1-lb. cans, 4-lb. cans.

**Corrosive Sublimate.** For treating Potatoes and other plants before setting out. ¼ lb., 1 lb., 25 lbs.

**Cuprocide, Yellow (Red Copper Oxide).** For seed treatment. Used in greenhouses to prevent damping off and black leg. 3-lb. bags only.

**CYANOGLAS**  
CALCIUM CYANIDE

**Cyanogas A Dust.** Calcium Cyanide for killing all rodents. 1-lb. cans, 5-lb. cans.

**Cyanogas G Fumigant.** For greenhouse fumigation or general fumigation of all enclosed spaces. 4- oz. cans, 5-lb. cans, 25-lb. drums.

**DDT.** Dusts and liquids.

**Dusting Sulphur.** Used for crop dusting. Sold in 100-lb. bags or in bulk.

**Ever Green Garden Spray.** Retail prices: 1 oz., 35c; 6 ozs., \$1.15; 1 pt., \$2.45; 1 qt., \$4.10; 1 gal., to commercial growers, \$12.60.

**Formaldehyde.** Liquid mixed to prevent smut in Onions, Potato treatment, etc. Sold in your container or in 50-gal. drums; also in pint bottles.

**Paris Green.** A very strong insecticide for all eating insects. ¼-lb. pkgs., and 1-lb. pkgs.

**Krop-Saver No. 10 Pyrocyde Dust.** Very effective on Cucumber beetles, Squash bugs, etc.

**Krop-Saver C-1 Dust.** Tri-basic copper sulphate for blight control on vegetables.

**Krop-Saver No. 5-C Dust.** Pyrethrum and copper combination bug and blight control.

**Krop-Saver No. 75 Dust.** Recommended for Cabbage and Cauliflower worm control.

**Red Arrow Spray.** A concentrated rotenone spray in 1-oz., 4-oz., 1-pt., 1-qt., and 1-gal. bottles.

**Rootone.** A hormone root forming powder to stimulate root growth on cuttings. Comes in various sizes.

**Trasplantone.** A root stimulant used in the transplanting of various plants.

**Seed-Less Set.** A new hormone spray, especially for Tomatoes, Peppers, Cucumbers, etc. Just spray the flowers and it will give you earlier crops, better and more fruit per plant, with no seeds.

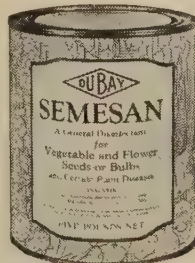
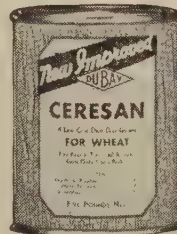
**Semesan A** A seed disinfectant for surface-borne organisms as well as soil-borne fungus.

**Semesan Bel.** For treating Potatoes and certain flowering bulbs.

**Semesan Jr.** Used for the treatment of seed Corn.

**Slug Shot.** An old reliable dusting powder for killing Cabbage worms, Potato bugs and other chewing insects.

**Spergon.** A seed protectant in powder form for treating seed before planting. Spergon assures better germination of the seed and produces healthy plants that give better yield. It is non-injurious to humans and is easy to apply to the seed.



## WE RECOMMEND TRI-GEN



The all-purpose spray for Rose plants. Insecticide, fungicide and plant stimulant all in one.

"E" Kit .....	\$0.90
"A" Kit .....	1.50
"B" Kit .....	4.00
"C" Kit .....	6.00

**Tobacco Dust.** Finely ground. Sold in bulk, any quantity, or in 100-lb. bags.



# ORTHO—Pioneer in Research . . . .

Recognizing that the home gardener, as well as the commercial grower, has specific pest problems, the corporation developed a packaged line of insecticides, fungicides, weed killers and other pesticides for garden and home use. These garden and home products have had the benefit of the corporation's extensive research and test facilities, plus additional engineering to suit them to the needs of the small user. Products are made for practically every garden pest control situation, with continuing emphasis placed on simplification.



## Protect your beautiful garden...

Check your needs for these  
**ORTHO** pest control products

### TWO GREAT NEW PRODUCTS

#### BOTANO Deluxe

Improved: contains Zinc and Iron Carbamates, Gamma Isomer of Benzene Hexachloride, Dianysl Trichloroethane.

8-oz. Duster, 75¢      2-lb., \$1.50

#### VAPOTONE Spray

Kills Red Spider, Aphis—for Greenhouse use.

47/100 gal. . . . . \$7.90

95/100 gal. . . . . \$11.90

### MULTI-PURPOSE SPRAY

**ORTHO Garden Spray Set.** For use against more prevalent Garden Insects.

Set contains 4-ounce bottle of **EXTRAX** Insect Spray, **GREENOL** Liquid Fungicide and **VOLCK** Oil Spray. Makes 25 gallons Multi-Purpose Spray. . . . . \$1.85

**ORTHO Garden Spray Set, JR.** 2-oz. bottles of **EXTRAX**, **GREENOL**, **VOLCK**. \$1.20

### MULTI-PURPOSE DUST

**BOTANO Garden Dust.** For use against many insects and diseases. One of the safest multi-purpose dusts that can be used. 10-oz. size also serves as handy garden duster. Includes Rotenone and Pyrethrum.

10-oz. Duster . . . . . 60¢

### MULTI-PURPOSE BAIT

**BUG-GETA PELLETS.** For use against Principal Foraging Pests.

Slugs, Snails, Cutworms, Earwigs, Grasshoppers, Strawberry Root Weevil. Baiting against these pests is easy with the new **BUG-GETA PELLETS** Compressed BAITs. 5000 baits in a 2-pound carton.

12-oz. Carton, 35¢      2-lb. Carton, 75¢  
5-lb. Carton, \$1.50      25-lb. Bag, \$5.60

**APPO Cutworm Bait.** A new poisoned Apple bait. Kills Cutworms, Strawberry Root Weevil; also Vegetable Weevil, Slugs, Snails. . . . . 1-lb. Carton, 45¢

**CALTOX Garden Dust "525".** Especially useful on Tomatoes, Potatoes, Cucumbers, Squash and Melons. Contains Cryolite, Copper and Zinc. 10-oz. Dual Purpose Package. . . . . 60¢

**VOLCK Oil Spray.** Envelops, wets and smothers many sucking insects. Also spray carrier for other sprays. 4-oz. Bottle, 35¢      1-Pint Bottle, 70¢  
1-Gallon Can . . . . . \$2.85

**ORTHOL Garden Spray.** (Garden **VOLCK** with DDT.) Kills Aphis, Thrips, Mealybugs and many other insects. 4-oz. Bottle, 35¢      16-oz. Bottle, 75¢

**ORTHO Sowbug Killer.** A specially prepared bait for use against Sowbugs and Pillbugs. . . . . 1-lb. Can, 50¢

**ORTHO Ant and Roach Powder.** A Fluorine-Pyrethrum Insecticide for use against Ants, Roaches, Silverfish. Easy to use. . . . . 4 1/2-oz. Shaker, 25¢

**ANT-B-GON Ant Poison.** Four to eight Dispensers are enough for average home. Easy to refill. Ants feed from "Wick". . . . . can't get inside. For Argentine and Sweets-eating ants. Set of four 1-oz. Dispensers. . . . . 70¢  
Ant poison to refill dispensers:  
4-oz. Bottle, 25¢      1 Pint, 60¢

**EXTRAX Insect Spray.** Contains Rotenone and Pyrethrum. Kills by contact insects such as Aphis, Beetles, Caterpillars, Thrips.

4-oz. Bottle, \$1.00      1 Pint, \$2.85  
1/2 Gallon . . . . . \$9.25

### THREE NEW DDT INSECTICIDES

**PEST-B-GON Insect Spray.** Contains 20% DDT. Kills Beetles, Worms, Thrips, Ants, Leafhoppers; also Houseflies (as screen paint), Mosquitoes, Fleas. 4-oz. Bottle, 65¢      1 Pint, \$2.00

**PEST-B-GON Insect Dust.** Contains 10% DDT. Kills many Thrips, Plant Bugs, Beetles, Worms, Leafhoppers—Fleas, Bedbugs, Roaches, Silverfish, Ants.  
10-oz. Duster Package. . . . . 69¢  
2-lb. Package . . . . . \$1.00

**PEST-B-GON Wettable.** Wettable DDT Powder. . . . . 1 lb., \$1.00

**ORTHO Lead Arsenate.** A stomach poison for use as a spray or dust. 1 lb., 50¢

**GREENOL Liquid Fungicide.** A copper fungicide used to prevent Powdery Mildew. . . . . 1 Pint, \$1.50  
4-oz. Bottle, 60¢      1/2 Gallon, \$5.00

**ORTHO "BORDO" Mixture.** Prepared Bordeaux Mixture. . . . . 1 lb., 40¢

**FLOTOX Garden Sulfur.** Finely powdered. Use as a dust or spray. 26 ozs., 35¢

**CONTAX Sealing Compound.** Protect cuts and tree wounds. Also has many other uses. . . . . 1 Gallon Can, \$1.50

**ORTHO Rose Spray Kit.** Special Combination Offer. Contains 2-oz. bottle "EXTRAX" for Aphis and other insects and 2-oz. bottle "GREENOL" to prevent certain Powdery Mildews. Makes 12 gallons spray. Used for vegetables, too. . . . . Each Kit, \$1.00

**ORTHO Rose Dust.** Complete rose and flower garden dust. 8 oz., \$1.00      1 lb., \$1.25

**ORTHO Soil Fumigant.** To control Cabbage and Onion Maggot, Sod Webworm. 4-oz. Bottle, 35¢      1 Pint, \$1.00

**TRIOX.** Poisons soil and prevents weeds from growing. Use on driveways, walks, and other places where no vegetation is wanted.  
1-Qt. Can, \$1.00      1-Gal. Can, \$3.50

**WEED-B-GON Weed Killer.** Contains 2,4-D. A hormone spray for killing Wild Morning-Glory (Bindweed), Poison Oak, Poison Ivy, Plaintain, Dandelion. Use on grass lawns (not Dichondra, Lippia or Clover). 4-oz. Bottle, 50¢      1 Pint, \$1.50

**ORTHO Rat Bait Pellets.** Ready-to-use Red Squill Bait. Poisoned Rats seek underground burrows before dying. 2-oz. Carton, 25¢      6-oz. Carton, 45¢

**SCRAM Dog Repellent.** A special powder used to keep dogs away from shrubs, flowers, lawns, store fronts, porches, etc. Easy to use. Does not harm animals. . . . . 8-oz. Shaker, 50¢

**ORTHO-PET Flea Powder.**  
1 1/2-oz. Puffer Package . . . 35¢



CALIFORNIA SPRAY-CHEMICAL CORP.

Richmond, California      Elizabeth, New Jersey

All Prices Quoted F.O.B. Grand Rapids



## INSECTICIDES

**Krop Saver No. 25DE** is 25% DDT concentrate for use on the farm or home as a spray in diluted form. Will kill flies, fleas, mosquitoes, roaches, silverfish and crickets; also used for a cattle spray or dip. It is economical, long lasting, odorless and non-inflammable.

## POISON GRAIN

Prepared by the U. S. Department of the Interior, Fish and Wildlife Service, Pocatello Supply Depot, Pocatello, Idaho, for the control of field mice and other rodents in orchards. This is grain treated with strychnine, and is put up in 10- and 25-lb. bags. 10 lbs., \$2.25; 25 lbs., \$5.25, f.o.b., Grand Rapids.



## EndoWeed

Why? Because EndoWeed is a new and improved selective weed killer, carefully prepared to kill ugly lawn weeds without harming ordinary grass or affecting the soil! EndoWeed kills dandelions, chickweed, plantain and over 50 other weeds—roots and all. 8 ounces treats 2000 sq. ft. of lawn.

PRESENTED BY SWIFT

MAKERS OF VIGORO

### EndoWeed Prices

1/2 pint liquid .....	\$1.00
1 qt. liquid .....	2.75
1 gallon liquid .....	7.50
ENDOWEED SIDE SPRAYER .....	.59

## CARBOLA-DDT

INSECT-KILLING AND GERM-KILLING  
WHITE POWDER PAINT

### DON'T LET THOSE CHICKS DIE!

Now is the time to paint and disinfect your poultry houses, before you put in chicks for the season, using the old reliable Carbola, which destroys disease germs such as diphtheria, roup, cholera, that take so many chicks in untreated brooders and poultry houses. Simply mix Carbola DDT in water and brush or spray on walls and other surfaces. Dust floors, dropping boards, nests with dry powder to kill germs and to keep down ammonia. Rub powder into feathers to destroy lice. Used by agricultural colleges hatcheries and thousands of farmers.

### KILLS FLIES AND GERMS IN BARN

In the 2% DDT now contained in Carbola you have a guaranteed FLY KILLER that remains active for months when applied as a paint in cow barns and other buildings. In addition you get the germ-killing disinfection, which prevents Bangs disease, tuberculosis and other diseases. Dries white; meets Board of Health requirements. One or two easy paintings a year do the job.

Ask your dealer today about the economical 50 lb. bag

1 lb. 25c, 5 lb. 75c, 10 lb. \$1.25, 25 lb. \$2.75, 50 lb. \$4.85

Write for handy egg record chart

CARBOLA CHEMICAL CO., Inc.

Established 1916

Natural Bridge 100, N. Y.

## WEED KILLERS

**Du Pont Ammate Weed Killer.** A crystalline material containing ammonium sulfamate as its active ingredient. It has proved to be outstandingly successful for the control of poison ivy, poison oak, ragweed, buckhorn, plantain and certain other weeds.

**2-4 Dow Weed Killer.** (In powder form.) Kills many weeds without injuring the grass. It is easy to mix with water to the desired strength.

**Weed-No-More Magic Weed Killer.** A Sherwin-Williams product containing 2, 4-D. It kills the ugly weeds, but won't harm common lawn grasses.

**Ridz Crab Grass Killer.** A highly selective substance that kills seedling and mature crab grass without harming the desirable lawn grasses. When soaked into the soil, it retards the germination of the remaining crab grass seed.

**Weedone.** "The internal weed killer". A 2-4 D concentration that will kill most weeds without injuring valuable grasses. Simply dilute 1 qt. in 25 gallons of water and spray the leaves.

**Weedust.** (In dry powder form). It's the new 2-4 D weed killer, now in dust form, ready to use. Just shake a little of the dust on each weed and watch it curl up, dry up and die.

**ZOTOX Crab Grass Killer.** Crab grass is America's No. 1 annual lawn weed. It doesn't appear until August and grows very rapidly, reseeding itself for another year. ZOTOX will kill this weed as well as the seed that has dropped without sterilizing the soil and the lawn may be reseeded and fertilized in three or four days after it has been applied.



... no unsightliness following garden dusting! A few strokes of the exclusive EndoPest dust gun envelops your plants in an almost-invisible protecting film... gives you control over most chewing insects, sucking insects and fungus diseases! Use with confidence on edible fruits and vegetables. We have refill cartridges for the guns.

MADE BY SWIFT

MAKERS OF VIGORO

### End-O-Pest Prices

10 oz. gun .....	\$0.79
4 oz. pkt. ....	0.25
10 oz. refill .....	0.59
2 lb. pkg. ....	1.50

## ACTIVO

### YOUR OWN ODORLESS FERTILIZER FACTORY

Humus From Compost in 2 to 6 Weeks

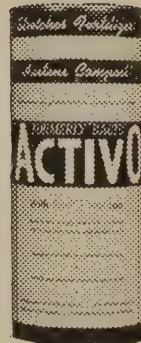
Now you can make rich, compost fertilizer from even garbage, WITHOUT ODOR, in a tiny back yard, in 2 to 6 weeks! Just gather waste—table scraps—leaves—grass—garden rubbish, etc., even sawdust and soot and treat with ACTIVO. Easy. Low cost. No. 7 size treats up to 1,700 lbs. compost.

ACTIVO also adds life to jaded soils—activates and conditions when applied directly. Use it to "stretch" and convert chemical fertilizer, and to reduce odor in outdoor toilets and convert waste into easily handled ash-like humus.

### PRICES

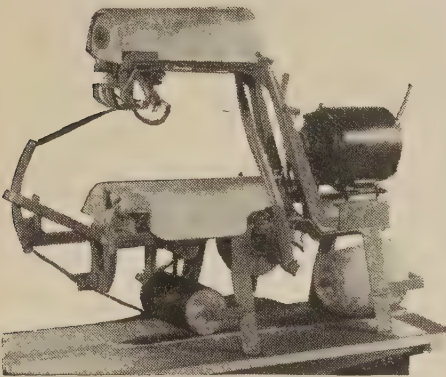
No. 1 size, for composter cabinets and for activating pot and bed soils; enough for 45 to 100 lbs. of waste, 35c each; 3 for \$1.00; \$3.95 per dozen.

No. 2 size, for up to 450 lbs. waste, \$1.00 prepaid. No. 7 size, for 1700 lbs. waste, \$2.00, prepaid. No. 25 size, for 3 1/2 tons waste, \$6.79; No. 50 size, for 6 1/2 tons waste, \$9.95.





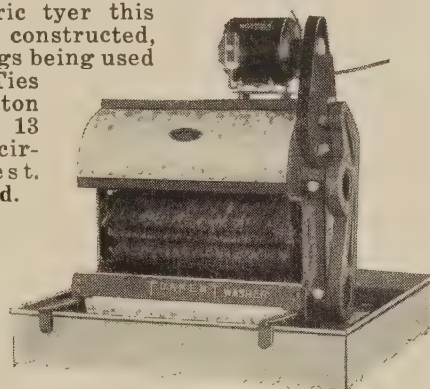
Electric Tying Machine



The Felins Electric Tying machine is a great time saver. Will handle 6- to 16-ply cotton twine as well as No. 13 and No. 17 braid. Is equipped with a 1/4 h.p. electric motor, 110 volts. Top speed 45 bunches per minute. \$174.25, not prepaid.

FELINS FOOT POWER MACHINE

Like the electric tyer this machine is well constructed, dual roller bearings being used where needed. Ties 6- to 16-ply cotton twine and No. 13 braid. Illustrated circular on request. \$86.65, not prepaid.



Felins Torrent Bunch Washer

Felins Torrent Bunch Washer. \$161.70 not prepaid.  
Felins Root Crop Washer. \$202.15 not prepaid.

FERTO POTS

For earlier, better crops and bigger profits. FERTO-POTS produce earlier crops and more abundant yields, and are extensively used by the most successful gardeners.

FERTO-POTS are constructed of manure and fertilizer in the correct proportions for best plant growth and for holding the moisture at roots of the plants. The plants are not removed from the pots when they are set out. Simply set pot and all in the ground and the roots will grow



right through the pot which slowly breaks down, furnishing valuable plant food. Roots are not disturbed and the plants are not checked.

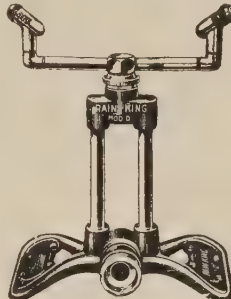
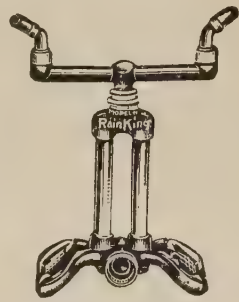
Carton of 100 No. 3 (3 inch), \$3.00, not prepaid.  
Carton of 250 No. 3 (3 inch), \$5.50, not prepaid.

VIMLITE

The flexible health glass. It transmits healthful sun rays. An all-purpose plastic glazing—flexible, unbreakable, reliable. Easy to install for poultry houses, plants, hotbed sashes, cold frames, etc. 36 inches wide. 47c per running foot; 50-ft. rolls, \$14.75; 100-ft. rolls \$42.00. Sample mailed upon request.

RAIN KING Sprinkler Model "H"

Chrome plated. Adjustable for coarse or medium shower. Can be used for revolving or stationary sprinkling by simply turning lock wheel. 11 1/4 inches tall; 9 1/4 inches from nozzle to nozzle. Price: Each \$5.95. Shipping weight 5 lbs.

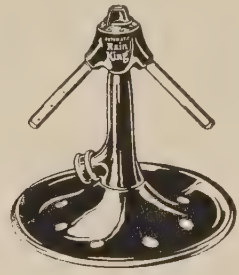


RAIN KING SPRINKLER Model "D"

Can be adjusted to operate slow or fast. Will operate on any water pressure. Price: Each \$4.10. Shipping weight 4 lbs.

RAIN KING SRINKLER Model "K"

Automatic, new sensational sprinkler that you can set instantly to sprinkle any size circle 5 to 50 feet, by simply turning the button on top of the sprinkler. Price: Each \$6.95. Shipping weight 5 lbs.



Wood Veneer Plant Bands

Used by the largest growers of vegetable plants, perennial plants, Carnations, Snapdragons and Stocks, for transplanting in the greenhouse or out-of-doors. Packed 1000 to a carton.

	Shipping Weight	Per 1000
1 3/4 x 1 3/4 x 2 1/2 in.	33 lbs.	\$5.70
2 x 2 x 2 1/2 in.	35 lbs.	5.85
2 1/2 x 2 1/2 x 2 1/2 in.	40 lbs.	6.25
2 x 2 x 3 in.	40 lbs.	6.35
2 1/2 x 2 1/2 x 3 in.	45 lbs.	6.55
3 x 3 x 3 in. **	55 lbs.	7.30
4 x 4 x 3 in.	60 lbs.	7.90
3 x 3 x 4 in.	60 lbs.	7.90
4 x 4 x 4 in.	65 lbs.	8.95

These bands are stapled, and are sold in units of 1000 only. The above prices are quoted f.o.b. Grand Rapids, based on existing express rates. Those \*\* is the most popular size, which will be carried in stock. Other sizes can be obtained on order. All prices subject to change without notice, and for shipment direct from factory, we will quote special prices, f.o.b. factory.

WOOD LABELS For Marking Plants

	Plain, not printed	50	100	1000
5/8 in. x 4 in.	\$0.20	\$0.40	\$3.00	
5/8 in. x 5 in.	.30	.55	3.25	
5/8 in. x 6 in.	.35	.60	4.00	
5/8 in. x 3 1/2 in. wired	.35	.65	3.00	

Above prices are subject to change without notice and are quoted f.o.b. Grand Rapids. Postage will be extra.

Weatherproof Pencils. 10c each.  
Garlanite Putty. In 1-gal. cans. Prices on application.  
Greenhouse Staples. The original Van Reyner points. 9/16 in. or 5/8 in. long. Per box of 1000, \$1.00.  
Zinc Greenhouse Glazing Points. Per box 90c.  
Corn Planters.  
Corn Planters with Fertilizer Attachment.  
Potato Planters.  
Potato Planters with Conveying Tube.  
Asparagus Knives.  
Asparagus Knives with Wider Blade.



## GIVE CROPS A HEAD START WITH SELF FEEDING VITA BANDS

Vita Band No. 10—a low cost, nutrient treated band designed especially for annuals and vegetables. Ideal for growing periods up to 10 weeks. For longer growing periods, up to 40 weeks, specify Vita-Band No. 40, nutrient treated for all round use.

F.o.b. Grand Rapids

VITA-BAND No. 10—Sold in Units of 1000 Only					
1 3/4 x 1 3/4 x 2	2x2x2	2x2x3	2 1/2 x 2 1/2 x 3	3x3x3	3x3x4
\$2.90	\$3.25	\$3.75	\$4.15	\$4.55	\$5.90

VITA-BAND No. 40—Sold in Units of 1000 Only					
1 3/4 x 1 3/4 x 2	2x2x2	2x2x3	2 1/2 x 2 1/2 x 3	3x3x3	3x3x4
\$4.25	\$4.70	\$5.05	\$5.50	\$6.30	\$7.35

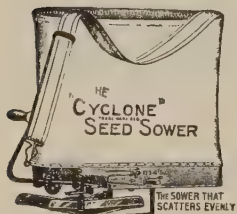
### Cyclone Seed Sower

**Broadcasts Evenly—Saves Seed—Saves Labor**

Uneven seeding is wasteful. The Cyclone will sow many acres per hour, any amount per acre. Does the work quickly and saves labor.

Many hundred thousand farmers in America, Canada, Europe, and other countries have relied on it for sowing Clover, Timothy, Alfalfa, Lespedeza, Sudan Grass, Oats, Wheat, or any other seed that is sown broadcast.

**Construction**—Its well known double feed insures a uniform flow of seed. Sloped feed board keeps hopper properly filled. Feed adjustment is automatic and starts or stops flow of seed instantly. Distributing wheel scatters seed evenly—throws equal amounts to equal distances on each side of operator.



Price: \$3.50 each.  
F.o.b. Grand Rapids



**A Real Tool for a Real Job!**

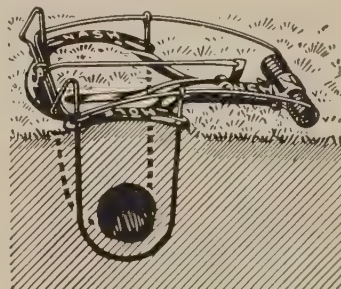
Built to give enduring service. Has 1/4 H.P. universal motor with die-cast aluminum housing and handy thumb-operated toggle switch. Special alloy gears. Cutter blade 12 inches long, is made of finest crucible steel. Price includes 6 feet of best rubber covered cord. \$34.50 each. Price subject to change.

**Atkins Silver Steel Saws.** For orchard pruning. There are many good numbers that the fruit men like, but they have been hard to get; however, we'll try to keep them in stock if and when they are available. Ask us, and we'll tell you what we have. Prices will be quoted upon application.

### Nash Choker Loop Mole Trap

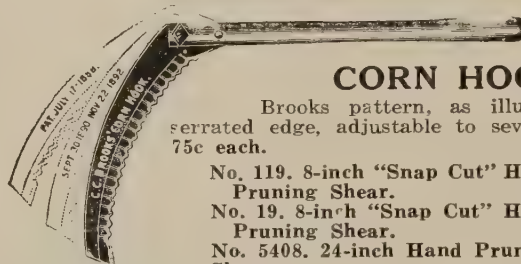
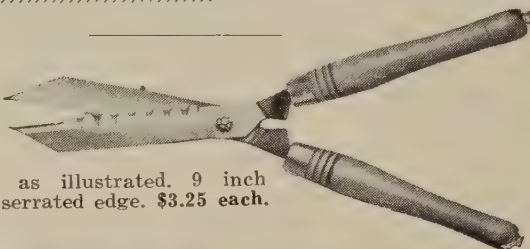
**The Only Trap That Always Catches The Mole  
In All Kinds of Ground**

Both the choker wires are made of a single piece of metal, bent to the desired form, so that they are held perfectly in place, not depending on numerous joints. The springs which operate the trap are of one piece of best Gamma spring steel, while the trap as a whole is strong enough so that no clods, stones, sticks or anything of that kind prevents its perfect operation. Price: \$2.75 each.



### Hedge Shears

No. A-102, as illustrated. 9 inch blade with serrated edge. \$3.25 each.



### CORN HOOKS

Brooks pattern, as illustrated, with serrated edge, adjustable to several positions. 75c each.

No. 119. 8-inch "Snap Cut" Hand Pruning Shear.  
No. 19. 8-inch "Snap Cut" Hand Pruning Shear.  
No. 5408. 24-inch Hand Pruning Shear.  
Also a 12 foot Sectional Pruning Shear.

F.o.b.  
Grand Rapids

Ask  
for  
Prices

### C-A WOOD PRESERVER

(Carbolinum America.) It is the ideal product to use on posts, poles, ties, sills, joists, floors, silos, hog houses, barns and other wood that is exposed to decay. It will kill chicken mites and fowl ticks. One application should last from one to three years. \$1.50 per gal., f.o.b. Grand Rapids.

## THE ROSS ROOT FEEDER

takes water and plant food RIGHT to the ROOTS where they do most good

Give your lawn and garden the professional care of Root-Zone Feeding—yet save time, trouble and expense. It's easy now, with the Ross Root Feeder. So many advantages in this superior new gardening tool.

**ADDS VIGOR**—Root-Zone feeding promotes deep, hardy root systems.

**EFFECTIVE**—Plant food and water go to Root Zone for greatest benefits.

**SAFE**—Ross Nutrient Cartridges can be safely applied to roots at all stages of growth.

**ECONOMICAL**—Ross cartridges contain growth-essentials in concentrated form.

**STOPS WASTE**—No run-off loss of fertilizer and water.

**NO BURN**—Sub-surface watering safe even at mid-day.

**ADJUSTABLE**—Flow can be controlled to exact needs.

**HANDY**—Fits garden hose. Penetrates ground easily.

**DURABLE**—Precision built for long service. Guaranteed.

Transplanting flowers? Transplant them clean and dry—then apply water at root-zone when transplanting is completed.

Planting hedge? Or some trees? Let the Ross Root Feeder insure a good start.

Want prize blooms? Ross Nutrient Cartridges stimulate extra development. Dry spells ahead? Root-Zone Watering helps save lawns and gardens.

Price, with 12 cartridges, \$4.98.  
One dozen cartridges come with each Root Feeder. Extra cartridges \$1.00 per dozen.



All Prices Subject to Change Without Notice and F.O.B. Grand Rapids.



## RAT KILLERS KIL-BALM



### DO YOUR PART—

to get rid of these thieves that waste the food so vitally needed throughout the world today. Nobody likes a rat. Rats carry disease. Rats and mice do almost two hundred million dollars' damage each year. Let's get rid of thieves.

6 ozs., 50c; 16 ozs., \$1.00, f. o. b. Grand Rapids.

**Ant-U-Rat.** Contains 20% alpha-naphthyl thiourea. May be mixed in baits, or sprinkled in runways diluted in water. 1½-oz. pkt., 65c; 4-oz. pkt., \$1.50; 8-oz. pkt., \$2.50.

**Mir-A-Kil.** The Miracle Rodenticide Rat Killer. Contains 25% Antu, and will kill on contact, dusting in runways or burrows; in water as a drink, on bait that rats will eat. 3-oz. shaker-top can, \$1.00.

**Snarol.** Kills snails, slugs, cutworms, sowbugs, earwigs. Spread around the plants late in the day after the ground has been watered. 1 lb., 35c; 2½ lbs., 75c, f.o.b. Grand Rapids.



## CARBOLA WITH DTT

A fly killing white paint. A time tested disinfectant to keep farmers' cow barns, poultry houses and other animal enclosures free from disease. Simply mix with water and use as a paint. Costs only 1 cent to treat 10 square feet. 5 lbs., 80c; 10 lbs., \$1.35; 25 lbs., \$3.00; 50 lbs., \$5.50, f.o.b. Grand Rapids.

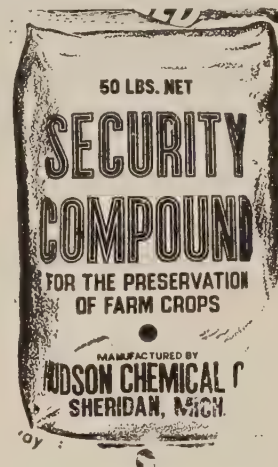
## Money Back Guarantee



DOGZOFF keeps dogs and other animals away from places they are not wanted. Harmless. Cannot injure vegetation. Non-poisonous. Non-inflammable. You must be satisfied or money will be refunded. Bottle 60c.

## Security Compound

Prevents spontaneous combustion, molding, mildewing, rotting, spoilage in new hay, grain, beans, corn, ground feed, shredded fodder. It is cheap insurance as it sweetens the mass and prevents fermentation and souring. It is beneficial to your cattle, sheep, hogs, horses and fowl. Write for prices.



## Soil Disinfectants

**Chlorpicrin (Tear Gas).** Has long been known as the best means of disinfecting soil for disease and nematodes that are in the soil.

**Larvacide** is the trade name for high-test Chlorpicrin, manufactured especially for soil treatment and food product fumigation. LARVACIDE is a heavy, colorless liquid (or with yellowish tinge) which volatilizes (gasifies) readily into a tear gas. Applied under soil surface as a liquid, LARVACIDE volatilizes and then spreads through the soil mass. Completely volatile, it leaves no harmful residue. Ask us about this product for disinfecting your soil and the method of doing it.

## When Insects INVADE

Have a  
Bug  
Bomb  
Always  
Handy

The Bug Bomb is SAFER, clean, fast. Press with one finger. An atomized mist does the rest. A little goes a long way.



**\$2.98**

Each, f.o.b. Grand Rapids. Order yours today.

## KLER-VUE LABEL



A Deluxe, All-Weather, Recording Plant Label. Tempered glass container, plastic screw cap, and rust-proofed green enameled stake.

Write the name of your plant on label and insert it into the bottle.

The tube insert is used for recording place of purchase, color, dates of planting, blooming, etc.

Price: \$2.50 per doz., including labels and data strips. 10% off in gross lots. F.o.b. Grand Rapids.



# FUMIGATORS



## NICOFUME PRESSURE FUMIGATORS For Greenhouses

1 lb. size, 12 to carton, \$7.95 per carton. ½ lb. size, 12 to carton, \$4.60 per carton.

NICOFUME HOLDER. For hand directed fumigation. Each 85c.



## BENZOFUME PRESSURE FUMIGATORS

An efficient and economical method of controlling greenhouse RED SPIDERS in Rose ranges, also in Carnations, Chrysanthemums and many other crops.

1 lb. size, 12 to carton, \$5.50 per carton. ½ lb. size, 12 to carton, \$3.20 per carton.

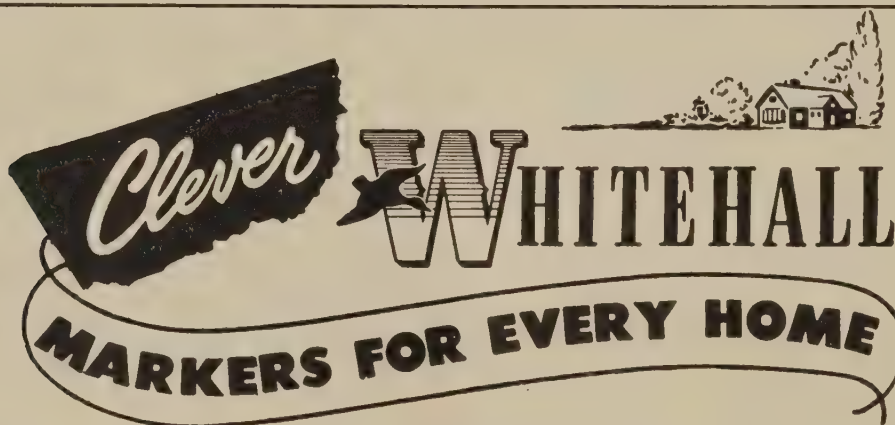
The Nicofume holder is especially useful with this product for hand directed fumigation.

THESE CAN BE MAILED—POSTAGE WILL BE EXTRA



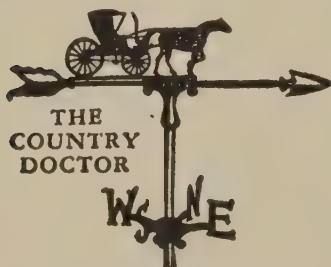
## BLACK LEAF MOSQUITO FUMER

Designed especially to kill biting mosquitos—to let you enjoy outdoor evenings, picnics and camping trips. They are convient to use and effective. Protected by a sturdy insulated can, your comfort and protection are given special thought; no "handling" of chemicals required. This compounded powder produces a "smoke aerosol" which penetrates the hiding places promptly then disperses. Lighters are attached to the bottom of each package. Price, 45c each.



CABALLERO

Vanes illustrated are all-metal and finished in weather-proof black to silhouette against the sky. Size: 40 in. high, 30 in. wide. Includes direction letters and Universal Base—\$24.50. Other clever new designs available in a smaller size—\$13.50.



THE  
COUNTRY  
DOCTOR

Our WHITEHALL selection includes unusual designs for every home, lodge or summer cottage. Signs that attach to tree, post or side of house—lawn signs—and wall type markers for any flat surface.

Signs are cast aluminum with leadcoated nameplate and hand-wrought iron bar. Swedish iron finish highlights artistic ornaments. Lettering 20c extra per character or numeral.

You'll also find many attractive new WHITEHALL house signs in our display—including both large and small sizes. Prices from \$5.50.

ONLY \$5.50\* EACH

\* Plus slight charge for lettering



WHITEHALL Bell Bracket "Town Crier"—\$13.50.

A cheery tinkle announces your guests—with this charming House Bell.

Handsome bronze bell; metal bracket; cast aluminum ornament highlighted by Swedish Iron finish. Approx. 12 in. high, 12 in. long.



"SOURDOUGH"

Lawn Sign—by driveway or up near house. Metal pole holds sign firmly in place! \$7.50. Approx. 40" high, 12" long.

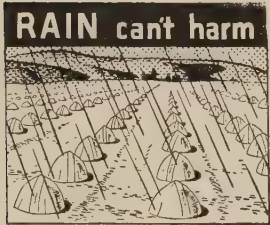
POSTAGE WILL BE EXTRA—SUBJECT TO THE 3% MICHIGAN STATE SALES TAX



Germāco

Hotkaps

or Plant Protectors



25 garden size package .....	\$0.70
100 package, complete .....	2.75
250 package, complete .....	4.65
1,000 carton—per 1000 .....	13.50
5,000 lots—per 1000 .....	13.35
10,000 lots—per 1000 .....	13.20
25,000 lots—per 1000 .....	13.05
Steel Setters. Each .....	1.95
Fiberboard Setters. Each .....	.20

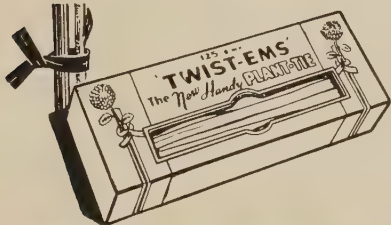
Shipped Prepaid in Michigan.  
We do not split packages of Hotkaps.

HOT TENTS

Hot Tents are a product of "Germaco Hotkaps," to give the user a larger area to cover individual plants. Weight 70 lbs. per thousand.  
Per 1000 Hot Tents .....\$19.45  
Hot Tent Setter ..... 2.45

SUPER HOT TENTS

Weight 120 lbs. per thousand.  
Per 1000 Super Hot Tents .....\$30.70  
Super Hot Tent Setter ..... 3.45  
F.o.b. Grand Rapids



'TWIST-EMS'

Home garden package for tying up anything you grow. "B" 8-inch Twist-ems, packed 125 to a box (as illustrated at the left). 35c each. "D" 16-inch Twist-ems, packed 125 to a box, 65c each.

For commercial growers, used in tying Carrots, Beets, Onions, Celery and other produce, for market. "A twist of the bunch does the trick."

	250	1000
7-inch—tied 250 to a bundle .....	\$0.40	\$1.50
8-inch—tied 250 to a bundle .....	.50	1.75
12-inch—tied 250 to a bundle .....	.75	2.75
16-inch—tied 250 to a bundle .....	1.00	3.50



**SPRA-SHIELD** **PROTECT**  
*Your Shrubs  
Bushes and Trees*  
**from RAVAGING RODENTS**  
and WINTER KILL  
SPRA-SHIELD protects plants with a dense, hard, laminated coating, applied with a garden sprayer. Plants so protected are seldom molested by cottontail rabbits, mice, rats, shrews and other rodents. One application usually sufficient.  
SPRA-SHIELD increases plant resistance to winter-kill, sealing in moisture, and reflecting unseasonable heat.  
SPRA-SHIELD is beyond comparison with makeshift resinous mixtures. It requires no special tools, no wrappers, no spring removal. It is ready-mixed, non-injurious, non-poisonous. Saves time, saves work, saves precious plants and trees.  
1 qt., \$1.40; 1 gal., \$3.00; 5 gals., \$12.50

TRAIN-ETTS

New Weatherized  
TRELLIS NETTING

Ideal Support for SWEET  
PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES

Grows finer, larger flowers and vegetables. Hung with ease in 5 minutes; no fuss or bother. Use instead of string or wire. (Wire in sun burns delicate tendrils.)  
Doesn't rot like string—lasts several seasons.  
No. 2 Size, 60x96 in. .... 85c, postpaid

RUBBER BANDS

Rubber bands are again in good supply and the quality is better than pre-war. We have all the popular sizes in stock. No. 8, No. 10, No. 12, also heavier bands in larger sizes. Price: \$1.00 per lb., f.o.b., Grand Rapids.  
Prices subject to change without notice.



PLANTER'S GUIDE

A vital question that is frequently asked. How large is an acre of land? Let's answer it right here.

5 yards by 968 yards.  
4840 square yards.  
60 feet by 726 feet.  
110 feet by 396 feet.

300 feet by 145.2 feet.  
43,560 square feet.  
From the above figures, you can figure any size piece of land.

Variety	Seed for 50 Ft.	Seed for 1 Acre Lb.	Rows Apart Feet	Plants Apart in Rows Inches	Planting Depth Inches	Days to Yield
Asparagus .....	1/2 oz. 30 plants	....	2 1/2	20	6	2 yrs.
Beans, Bush .....	4 ozs.	60 to 75	2 to 2 1/2	3 to 4	1 1/2	50 to 70
Beans, Pole .....	4 ozs.	30 to 35	3 to 4	9 (or hills)	1 1/2	65 to 80
Lima Beans, Bush .....	4 ozs.	30 to 50	2 to 2 1/2	3 to 4	1 1/2	65 to 75
Lima Beans, Pole .....	4 ozs.	30 to 40	3 to 4	9 (or hills)	1 1/2	80 to 90
Beet .....	1/2 oz.	4 to 6	1 1/2 to 2	3 to 4	1/2	60 to 75
Swiss Chard .....	1/2 oz.	....	2	15	1/2	50 and on
Broccoli .....	1 pkt.	1/4	2	18	1/4	70 to 80
Brussels Sprouts .....	1 pkt.	1/4	2	18	1/4	70 and on
Cabbage, Early .....	1 pkt.	1/4	2	12	1/4	65 to 75
Cabbage, Late .....	1 pkt.	1/4	2	18	1/4	80 to 100
Chinese Cabbage .....	1 pkt.	2	2	12	1/4	75 to 85
Carrot .....	1 pkt.	2 to 3	1 1/2	3	1/4	60 to 75
Cauliflower .....	1 pkt.	1/4	2	18	1/4	55 to 65
Celeriac .....	1 pkt.	1/4	2	4	1/8	90 to 120
Celery .....	1 pkt.	1/4	2 to 3	5	1/8	120 to 150
Collards .....	1 pkt.	....	2 1/2	24	1/4	90 and on
Sweet Corn, Early .....	1 oz.	8 to 10	2 1/2	9	1	70 to 80
Corn, Main Crop .....	1 oz.	8 to 10	3	12	1	80 to 95
Cucumber .....	1 pkt.	2	4	24	3/4	60 to 70
Egg Plant .....	1 pkt.	1/4	3	30	1/2	70 to 85
Endive .....	1 pkt.	4 to 5	1 1/2	9	1/4	70 to 80
Kale .....	1 pkt.	4 to 5	2 1/2	24	1/4	70 to 80
Kohl-rabi .....	1 pkt.	4 to 5	2	8	1/4	55 to 65
Leek .....	1 pkt.	3 to 4	1 1/2	6	..	120 to 150
Lettuce, Leaf .....	1 pkt.	3	2	12	1/4	45 to 50
Lettuce, Head .....	1 pkt.	3	2	12	1/4	50 to 70
Muskmelon .....	1 pkt.	3 to 4	5	48	1	80 to 100
Mustard .....	1 pkt.	4	2	9	1/4	60 to 75
Okra .....	1/2 oz.	8	3	15	1	50 to 60
Onion, Seed .....	1 pkt.	3 to 4	1 1/2	3 to 4	1/2	90 to 100
Parsley .....	1 pkt.	4	1 1/2	4	1/4	85 to 100
Parsnip .....	1 pkt.	4	1 1/2	4	1/2	80 to 100
Peas .....	1/2 lb.	90 to 180	2 to 3	1 to 2	1	60 to 80
Pepper .....	1 pkt.	1/4	2 1/2	24	..	65 to 80
Pumpkin .....	....	3 to 4	8	60	1	110 to 130
Radish .....	1 pkt.	10 to 12	1	1 to 2	1/2	25 and on
Rhubarb .....	10 plants	2 to 3 for plants	4	48	1/4	2 to 3 yrs.
Salsify .....	1 pkt.	....	1 1/2	2	1/4	140 to 180
Spinach .....	1 pkt.	15 to 25	1 1/2	6	3/4	40 to 50
Spinach, N. Z. ....	1 pkt.	....	3	20	1	70 to 80
Squash, Bush .....	1 pkt.	6	4	36	1	55 to 65
Squash, Vining .....	1 pkt.	4	6	60	1	65 to 120
Tomato .....	1 pkt.	1/4	3 to 4	36	1/2	75 to 90
Turnip .....	1 pkt.	2 to 3	1 1/2	4 to 6	1/4	50 to 80
Rutabaga .....	1 pkt.	1 to 2	2	6	1/4	80 to 90
Watermelon .....	....	3 to 4	8	96	3/4	75 to 95

NUMBER OF PLANTS TO THE ACRE AT GIVEN DISTANCES

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12 x 1 in. ....	522,720	24 x 24 in. ....	10,890	36 x 36 in. ....	4,840
12 x 3 in. ....	174,240	30 x 1 in. ....	209,088	42 x 12 in. ....	12,446
12 x 12 in. ....	43,560	30 x 6 in. ....	34,848	42 x 24 in. ....	6,223
16 x 1 in. ....	392,040	30 x 12 in. ....	17,424	42 x 36 in. ....	4,148
18 x 1 in. ....	348,480	30 x 16 in. ....	13,068	48 x 12 in. ....	10,890
18 x 3 in. ....	116,160	30 x 20 in. ....	10,454	48 x 18 in. ....	7,790
18 x 12 in. ....	29,040	30 x 24 in. ....	8,712	48 x 24 in. ....	5,445
18 x 18 in. ....	19,360	30 x 30 in. ....	6,970	48 x 30 in. ....	4,356
20 x 1 in. ....	313,635	36 x 3 in. ....	58,080	48 x 36 in. ....	3,630
20 x 20 in. ....	15,681	36 x 12 in. ....	14,520	48 x 48 in. ....	2,723
24 x 1 in. ....	261,360	36 x 18 in. ....	9,680	60 x 36 in. ....	2,901
24 x 18 in. ....	15,520	36 x 24 in. ....	7,260	60 x 48 in. ....	2,178

Approximate number of feet of row per acre at given distances:

Distance between rows:	18 inches	24 inches	30 inches	36 inches	42 inches	48 inches
Feet of row:	29,010	21,758	17,427	14,526	12,439	10,853







## ORDER SHEET — Continued

[illegible]

**SPECIAL NOTICE:** As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

NAME	POSTOFFICE	COUNTY	STATE

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE



# Flowers for Lasting Beauty

Flowers of lasting beauty are the perennials. They bloom the second year, and every year thereafter with very little attention. We list only a few here, but you will find many more in the pages of this catalog. No garden is complete without a few of these choice flowers that come back year after year.



Coreopsis

## COREOPSIS

A useful and attractive perennial, both for border and cut flowers. They are of easy culture, and flower in profusion throughout the summer. This is one of the finest with large, showy, bright yellow flowers produced in the greatest abundance from June until frost. See page 38.



Aquilegia—Columbine

## DELPHINIUM

**PACIFIC GIANTS, MIXED.** This new strain produces plants that are 60-65 per cent mildew-resistant. The flowers are immense size, tightly set on straight stems. The flowers do not shatter and are fine for cut flowers. See page 39.



Delphinium, Pacific Hybrids

## AQUILEGIA (Columbine)

**MRS. SCOTT ELLIOTT'S STRAIN OF LONG SPURRED HYBRIDS.** This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June. See page 38.





# Choice Gladiolus

## GRAND RIVER COLLECTION of Gladioli

Ten of each of the following ten representative varieties of Gladiolus (100 large size bulbs in all) will be sent to you—

Postpaid for only .....

**\$4.00**

- 10 **Bagdad.** Smoky rose.
- 10 **Pelegrina.** Deep blue.
- 10 **Hindenberg's Memory.** Dark red.
- 10 **White Butterfly.** White.
- 10 **Bit O' Heaven.** Orange.
- 10 **Picardy.** Pink.
- 10 **Maid of Orleans.** Milky white.
- 10 **Lindbergh.** Lavender.
- 10 **Golden Dream.** Yellow.
- 10 **Red Phipps.** Scarlet.

Please allow us to substitute other varieties, if we are sold out when your order is received.

**Subject to 3%  
Michigan State Sales Tax**

**All our Gladiolus are listed on page 40.**

**GRAND RAPIDS GROWERS  
Inc.**

401-433 Ionia Ave., S. W.  
GRAND RAPIDS, MICHIGAN

